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NATIONAL DAM SAFETY PROGRAM. LAKE SHERWOOD DAM (MO 10202), UPPE--ETC(U)
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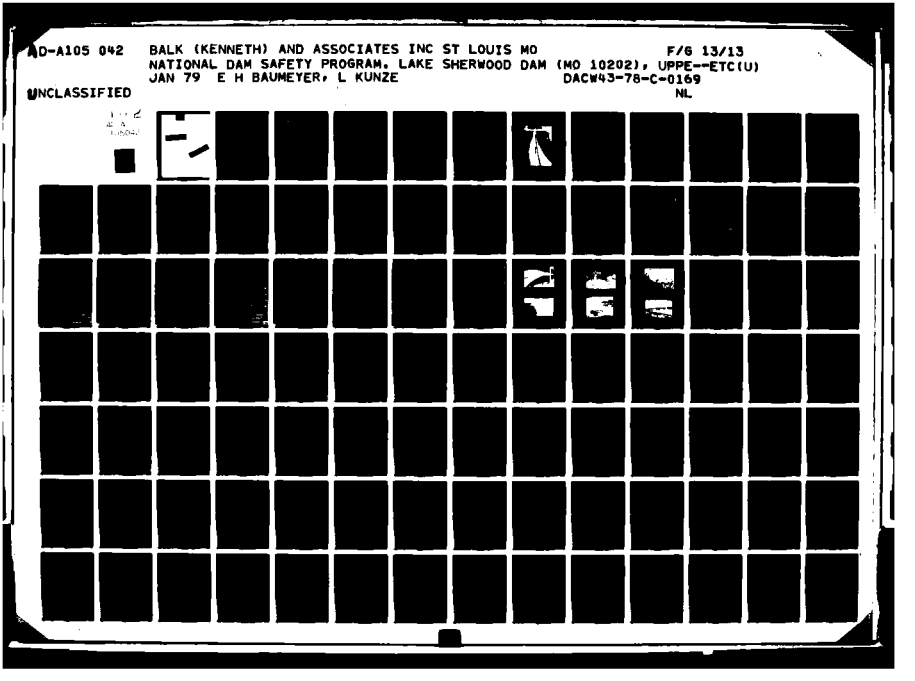

LEVEL II

UNCLASSIFIED
SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE

READ INSTR. BEFORE COMPL.

1. REPORT NUMBER

2. GOVT ACCESSION NO. AD-A105042

3. RECIPIENT'S CATALOG

4. TITLE (and Subtitle)
Phase I Dam Inspection Report
National Dam Safety Program
Lake Sherwood Dam (MO 10202)
Warren County, Missouri

5. TYPE OF REPORT & PERIOD COVERED
Final Report

6. PERFORMING ORG. REPORT NUMBER

7. AUTHOR(s)
Kenneth Balk and Associates, Inc.

8. CONTRACT OR GRANT NUMBER(s)
DACW43-78-C-0169

9. PERFORMING ORGANIZATION NAME AND ADDRESS
U.S. Army Engineer District, St. Louis
Dam Inventory and Inspection Section, LMSED-PD
210 Tucker Blvd., North, St. Louis, Mo. 63101

10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS

11. CONTROLLING OFFICE NAME AND ADDRESS
U.S. Army Engineer District, St. Louis
Dam Inventory and Inspection Section, LMSED-PD
210 Tucker Blvd., North, St. Louis, Mo. 63101

12. REPORT DATE
January 1979

13. NUMBER OF PAGES
Approximately 120

14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office)
National Dam Safety Program. Lake Sherwood Dam (MO 10202), Upper Mississippi - Mississippi - Kaskaskia - St. Louis Basin, Warren County, Missouri. Phase I Inspection Report.

15. SECURITY CLASS. (of this report)
UNCLASSIFIED

15a. DECLASSIFICATION/DOWNGRADING SCHEDULE

16. DISTRIBUTION STATEMENT (of this Report)
Approved for release; distribution unlimited.

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)
Dam Safety, Lake, Dam Inspection, Private Dams

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)
This report was prepared under the National Program of Inspection of Non-Federal Dams. This report assesses the general condition of the dam with respect to safety, based on available data and on visual inspection, to determine if the dam poses hazards to human life or property.

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

DEPARTMENT OF THE ARMY
ST. LOUIS DISTRICT, CORPS OF ENGINEERS
210 NORTH 12TH STREET
ST. LOUIS, MISSOURI 63101

IN REPLY REFER TO

SUBJECT: LAKE SHERWOOD DAM - PHASE I INSPECTION REPORT.

This report presents the results of field inspection and evaluation of the Lake Sherwood Dam.

It was prepared under the National Program of Inspection of Non-Federal Dams

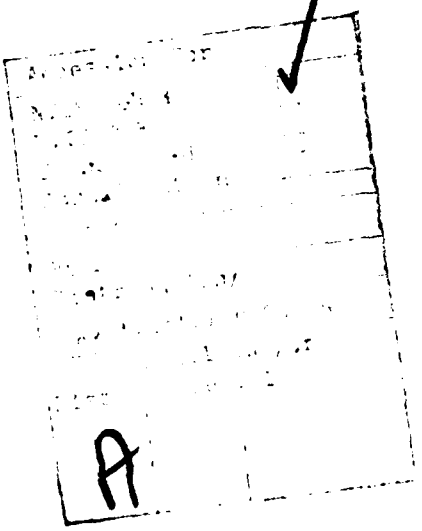
This dam has been classified as unsafe, non-emergency by the St. Louis District as a result of the application of the following criteria:

1) Spillway will not pass 50 percent of the Probable Maximum Flood
2) Overtopping could result in dam failure.
3) Dam failure significantly increases the hazard to loss of life downstream

SIGNED

SUBMITTED BY: _____ 10 APR 1979
Chief, Engineering Division — Date

APPROVED BY: _____ 10 APR 1979
Colonel, CE, District Engineer — Date



LAKE SHERWOOD DAM

WARREN COUNTY, MISSOURI

MISSOURI INVENTORY NO. 10202

PHASE I INSPECTION REPORT
NATIONAL DAM SAFETY PROGRAM

PREPARED BY

Kenneth Balk & Associates, Inc.
St. Louis, Missouri
Shannon & Wilson, Inc.
St. Louis, Missouri

PREPARED FOR

ST. LOUIS DISTRICT, CORPS OF ENGINEERS

JANUARY, 1979

PHASE I REPORT

NATIONAL DAM SAFETY PROGRAM

Name of Dam	Lake Sherwood
State Located	Missouri
County Located	Warren County
Stream	Tributary To Wolf Creek
Date of Inspection	August 25, 1978

Lake Sherwood Dam, No. 10202 was inspected using the "Recommended Guidelines for Safety Inspection of Dams". These guidelines were developed by the Chief of Engineers, U. S. Army, Washington, D.C., with the help of Federal and state agencies, professional engineering organizations, and private engineers. The resulting guidelines are considered to represent a consensus of the engineering profession.

Lake Sherwood Dam was visually inspected by an interdisciplinary team of engineers from Kenneth Balk & Associates, Inc. and Shannon & Wilson, Inc. The purpose of the inspection was to make a preliminary assessment of the general condition of the dam with respect to safety in order to determine if, in the opinion of the interdisciplinary team, the dam poses recognizable hazards to human life or property. This assessment is based solely upon data made available and visual evidence observed during the site visit.

To make a complete assessment of the safety of the dam would require detailed studies and engineering analyses beyond the scope of this preliminary assessment.

Based on the criteria in the guidelines, the dam is in the high hazard potential classification, which means that loss of life and appreciable property loss could occur in the event of failure of the dam. The estimated damage zone extends approximately five miles downstream of the dam. Within the damage zone are a wastewater treatment works, seven farm complexes with farmhouses, and one State highway crossing. Lake Sherwood Dam is in the intermediate size classification since it is greater than 40 feet high but less than 100 feet high.

The inspection and evaluation indicate that the spillway of Lake Sherwood does not meet the criteria set forth in the guidelines for a dam having the above size and hazard potential. Lake Sherwood is an intermediate size dam with a high hazard potential, required by the guidelines to pass the PMF. The Probable Maximum Flood, (PMF) is defined as the flood discharge that may be expected from the most severe combination of critical meteorological and hydrologic

conditions that are reasonably possible in the region. Considering the high hazard potential to loss of life and property downstream of the dam, the outlet facilities of Lake Sherwood Dam should be able to pass the PMF without overtopping the dam. However, it was determined that the spillway will only pass approximately 20 percent of the PMF without overtopping the dam.

The evaluation of Lake Sherwood also indicated that the spillway will pass the 100-year flood; that is, a flood having a 1 percent chance of being equalled or exceeded during any given year.

Deficiencies visually observed by the inspection team included the lack of rip rap on the upstream face of the dam. Other deficiencies, in our opinion, are the lack of seepage and stability analyses comparable to the requirements of the Recommended Guidelines, and seismic stability analyses.

It is recommended that action be taken in the near future to correct or control the deficiencies described. A detailed report discussing each of these deficiencies is attached.

Ervin H. Baumeyer, P.E.
Principal-In-Charge
Kenneth Balk and Associates, Inc.
St. Louis, Missouri

Lutz Kunze, P.E.
Principal Engineer
Shannon & Wilson, Inc.
St. Louis, Missouri

Overview of Lake and Dam

PHASE I INSPECTION REPORT
NATIONAL DAM SAFETY PROGRAM
LAKE SHERWOOD DAM - ID NO. 10202

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3	View From Top of Dam of Principal Spillway Entrance
4	Principal Spillway Exit
5	Spring In Left Abutment Near Toe Of Embankment
6	Wastewater Treatment Works

SECTION 1 - PROJECT INFORMATION

1.1 GENERAL

a. Authority. The National Dam Inspection Act, Public Law 92-367, authorized the Secretary of the Army, through the Corps of Engineers, to initiate a program of safety inspection of dams throughout the United States. Pursuant to the above, the St. Louis District, Corps of Engineers, District Engineer directed that a safety inspection of the Lake Sherwood Dam be made.

b. Purpose of Inspection. The purpose of the inspection was to make an assessment of the general condition of the dam with respect to safety, based upon data made available and visual inspection, in order to determine if the dam poses hazards to human life or property.

c. Evaluation Criteria. Criteria used to evaluate the dam were furnished by the Department of the Army, Office of the Chief of Engineers, in "Recommended Guidelines for Safety Inspection of Dams". These guidelines were developed with the help of several Federal agencies and many State agencies, professional engineering organizations, and private engineers.

1.2 DESCRIPTION OF PROJECT

a. General. Lake Sherwood is located downstream of a series of five reservoirs. One of these, Lake Alan is too small to be of appreciable significance to Lake Sherwood. Lake Eleanor, a 3.7 acre impoundment, discharges into lake Marian, an 8.3 acre impoundment, which then discharges into Lake Sherwood. Both of these lakes are located to the northeast of Lake Sherwood. Sugar Hollow Lake, directly to the north of Lake Sherwood, contains a pool of approximately 15.6 acres, and discharges into Lake Sherwood. Lake Robin Hood, an 8.3 acre impoundment, lies to the northwest of Lake Sherwood and also discharges into it.

b. Description of Dam and Appurtenances.

(1) The Lake Sherwood Dam is an earth structure built on Wolf Creek in the southeastern part of Warren County, Missouri. Topography adjacent to the valley is rolling to steep. Most of the area in the vicinity of the dam is covered with a residual soil overlying dolomite. Topography in the vicinity of the dam is shown on Plate 1.

(2) The principal spillway consists of three 36x58 inch corrugated metal arch pipes laid through the right abutment. An overflow spillway, generally semi-circular in shape, is located to the right of the principal spillway with the outlet channel cut into dolomite.

(3) Pertinent physical data are given in paragraph 1.3 below.

c. Location. The dam is located in the southeastern portion of Warren County, Missouri, as shown on Plate 2. The lake formed by the dam is on the Missouri-Warren County New Melle quadrangle sheet in the SE 1/4 of Section 11, T45N, R1W.

d. Size Classification. Criteria for determining the size classification of dams and impoundments are presented in the guidelines referenced in paragraph 1.1c above. Based on these criteria, this dam and impoundment is in the intermediate size category.

e. Hazard Classification. Guidelines for determining hazard classification are presented in the same guidelines as referenced in paragraph 1.1 c. Based on referenced guidelines, the Corps of Engineers has determined that this dam is in the High Hazard Classification and thus has been selected by the Corps of Engineers for a Phase 1 inspection.

f. Ownership. It is our understanding that this dam is owned by Lake Sherwood Estates Home Owners Association, Lake Sherwood, Mo.

g. Purpose of Dam. The dam forms a recreational lake.

h. Design and Construction History. The dam was completed in 1967. Some engineering data and remedial construction records were available. Leaks developed in the embankment near the left abutment and grouting was performed in 1970 by Test Drilling Services, Inc., a grouting and drilling firm, located in St. Louis, Missouri. Horner & Shifrin, Inc., a St. Louis consulting Engineering firm, were consulted regarding the leakage from the left abutment and it reportedly was their opinion that the source of the water is a solution channel in the Plattin limestone. A V-notch weir was installed to measure the flow of the spring from the left abutment. The water loss is a continuing occurrence, as evidenced by a 1977 report by Dr. J. H. Williams, Chief, Applied Engineering and Urban Geology, Geology and Land Survey, State of Missouri, which states that "If the leak at Lake Sherwood is continuously monitored to assure that it remains confined to bedrock, no danger exists". According to Mr. E. Sanders, Executive Director of the Lake Sherwood Estates Home Owners Association, the flow is relatively constant at approximately 200 GPM. Both the temperature and flow of the water from the left abutment is measured at regular intervals.

i. Normal Operating Procedure. Normal rainfall, runoff, transpiration, evaporation, and spillway discharges all combine to maintain a relatively stable water surface elevation.

1.3 PERTINENT DATA

a. Drainage Area

Direct Tributary Areas		Total Tributary Areas
Lake Eleanor	= 107 Ac.	107 Ac.
Lake Marion	= 37 Ac.	144 Ac.
Lake Sugar Hollow	= 966 Ac.	966 Ac.
Lake Robin Hood	= 462 Ac.	462 Ac.
Lake Sherwood	=1365 Ac.	2937 Ac.

b. Discharge at Damsite.

(1) Three 36x58 inch arch-pipes - 332 c.f.s. at maximum pool.

(2) Emergency spillway - 1204 c.f.s. at maximum pool.

(3) Estimated experienced maximum flood at damsite - approximately two feet below top of dam, 522 cfs.

c. Elevation (U.S.G.S.)

(1) Top of dam - 629.6 (see Plate 3).

(2) Spillway crest - 622.8.

(3) Streambed at centerline of dam - 560 (est.).

(4) Maximum tailwater - unknown.

d. Reservoir. Length of maximum pool - 5,600 feet ±.

e. Storage (Acre-feet).

	Lake Eleanor	Lake Marian	Lake Sugar Hollow	Lake Robin Hood	Lake Sherwood
(1) Normal	58	260	288	144	2400
(2) Maximum	72	291	308	155	2837

f. Reservoir Surface (Acres).

(1) Top of dam - 163

(2) Spillway crest - 141

g. Dam.

(1) Type - earth embankment.

(2) Length - 1,000 feet.

(3) Height - 70 feet maximum.

(4) Top width - 30 feet.

(5) Side Slopes - (Measured with a slope meter/inclinometer in degrees and converted to ratios.)

(a) Downstream - 2.6 H to 1 V.

(b) Upstream - 3.7 H to 1 V.

(6) Zoning - unknown

(7) Impervious core - unknown

(8) Cutoff - unknown

(9) Grout curtain - unknown

h. Diversion and Regulating Tunnel. - NONE

i. Spillway.

(1) Type - Three 36" x 58" Corrugated Metal Arch Pipes

(2) Crest elevation - 622.9 U.S.G.S.

j. Regulating Outlets. - NONE

k. Overflow Spillway.

(1) Type - Semi Circular Weir, varying in length as water surface rises. Length at top of dam elevation is approximately 155 feet.

(2) Crest - 625.8

SECTION 2 - ENGINEERING DATA

2.1 DESIGN

Design data made available (for review only) consisted of one drawing depicting a cross-section of the dam.

2.2 CONSTRUCTION

The dam was completed in 1967. Remedial design data relative to grouting to control seepage was available for review, and were considered in this report. Among these data were reports by Dr. J. H. Williams, Horner and Shifrin, Inc. and Test Drilling Services, Inc. as outlined in Paragraph 1.2 h.

2.3 OPERATION

No records of the maximum loading on the dam were available.

2.4 EVALUATION

a. Availability. Some engineering and geological data were available for review, as discussed in Paragraphs 2.2 and 1.2 h.

b. Adequacy. The engineering data made available was not sufficient to make a detailed assessment of the design, construction, and operation. The lack of seepage and stability analyses comparable to the requirements of the Recommended Guidelines is considered a deficiency. Remedial design data was considered adequate.

c. Validity. No valid engineering data on design were available. Remedial design data was available and was considered sufficient to assess the potential problem of the flow of water from springs in the left abutment.

SECTION 3 - VISUAL INSPECTION

3.1 FINDINGS

a. General. A visual inspection of the Lake Sherwood Dam was carried out on August 25, 1978. Personnel making inspection were employees of Kenneth Balk and Associates, Inc. and Shannon and Wilson, Inc. of St. Louis and included civil, geotechnical, and structural engineers and an engineering geologist. Specific observations are discussed below.

b. Dam. The inspection team observed the following at the dam.

The dam is an earth embankment with a paved roadway crossing the crest. No detrimental settlement, depressions, cracking, erosion, animal burrows or slope instability was observed on either the embankment or the abutments. A waste-water treatment facility is located immediately downstream from the toe of the embankment. At the time of the inspection, construction of expansion facilities was underway.

Three springs were observed in the left abutment. The closest spring to the dam is located at the juncture of the toe and the left abutment. A V-notch weir has been constructed some 20 feet downstream from this spring and at the time of the inspection, this spring was flowing at 200 gallons per minute. The other two springs are some distance (200 feet plus) downstream from the juncture of the embankment and the left abutment and their flow was not measured.

A small area at the toe of the dam at the juncture of the left abutment was wet and soft, due to flow from the nearest spring. The flow from this spring has been channelized to flow over the weir. A line of grout pipes were observed on the downstream slope of the embankment near the left abutment. The downstream slope of the dam was partially mowed on the day of the inspection and there were no bushes or small trees visible on the unmowed portion, which is considered evidence of a regular, periodic vegetation control program.

c. Appurtenant Structures. A spillway, consisting of three (3) 36x58 inch Corrugated Metal arch pipes, is located on the right abutment. A secondary or overflow spillway is located at the right of the principal spillway, in the right abutment.

d. Reservoir Area. No wave wash, excessive erosion or slides were observed along the shore of the reservoir.

e. Damsite Geology.

Right Abutment. Exposed on the right abutment is a formation consisting of mainly argillaceous dolomite (Joachim Formation); yellowish-brown in color, thinly to medium bedded, with bedding almost horizontal, medium to finely crystalline. This formation is sparsely jointed with joints almost vertical to the bedding plane and strike almost NS. Thin layer of grayish-brown, clayey-silty shale is present at places. Chert nodules, light-gray in color, and quartz lenses are also present.

Spillway Outlet Channel. Spillway discharge channel is cut through the right abutment in yellowish-brown, argillaceous dolomite. There is no visual evidence of significant ercsion of the channel.

Left Abutment. Small outcrops of argillaceous dolomite are present on the left abutment. This dolomite (Joachim Formation) is mostly covered with a thick layer of reddish-brown clayey silt and is medium to finely crystalline, sparsely jointed with joints perpendicular to the bedding planes.

Joint opening = 1/6 inch to 1/2 inch

Filling material - argillaceous and calcatic

Open joints - 10%; Closed joints - 90%

Chert nodules and quartz lenses are also present at places.

3.2 EVALUATION

Recorded monitoring on a regular schedule of the volume of the flow and the temperature of the water from the spring should be continued. The water should also be checked for clarity and if it starts to carry sediment, the situation should be reviewed with a professional engineer experienced in the design and construction of dams.

The lack of rip rap on the upstream face of the dam is considered a deficiency for a dam of this size.

SECTION 4 - OPERATIONAL PROCEDURES

4.1 PROCEDURES

The lake level is controlled by rainfall, runoff, evaporation, and discharge through uncontrolled spillway.

4.2 MAINTENANCE OF DAM

No maintenance records of the dam were available. Mowing of the downstream slope and general cleanliness, and the monitoring of the flow from the springs discussed earlier, suggest that a regular maintenance program is in effect.

4.3 MAINTENANCE OF OPERATING FACILITIES

No regulating structure exists.

4.4 DESCRIPTION OF ANY WARNING SYSTEM IN EFFECT

The inspection team is not aware of any existing warning system for this dam.

4.5 EVALUATION

It is our opinion that the operational procedures apparently have been satisfactory notwithstanding the lack of records.

SECTION 5 - HYDRAULIC/HYDROLOGIC

5.1 EVALUATION OF FEATURES

a. Design Data. There were no hydraulic and hydrological design data made available.

b. Experience Data. The drainage area and lake surface area are developed from USGS New Melle, Mo. Quadrangle, 7.5 minute series, dated 1972. The spillway and dam layout are from surveys made during the inspection.

c. Visual Observations.

The spillways and outlet channel are in good condition. Spillway discharges will not affect the integrity of the dam.

Full cognizance of the upstream impoundments, Lakes Eleanor, Marian, Sugar Hollow, and Robin Hood, was taken in the analyses of the overtopping potential of Lake Sherwood. In this analysis, it was assumed that, while the dams of the upstream reservoirs might be overtopped, failure of their embankments would not occur.

Under this assumption, the upstream reservoirs have a beneficial effect on Lake Sherwood. At the time of the PMF peak outflow rate for Lake Sherwood, approximately 568 acre feet of water is in-storage in the four upstream reservoirs, being contained between the spillway crest elevations and the water surface elevations.

If simultaneous failure of all the upstream dams is assumed to occur at the same time as the peak rate of local runoff is entering Lake Sherwood, the effect of the upstream reservoirs would be negative on Lake Sherwood. If it is assumed that, in addition to simultaneous failure, instantaneous arrival of the flood waves occurs, then approximately 1886 acre feet of water would be entering Lake Sherwood, in addition to the local runoff. The 1886 acre feet being made up of the 568 acre feet mentioned above and approximately 1318 acre feet which is contained between the bottom of the reservoirs and the spillway crests.

It can be said that if the above failure, or something approaching such an event were to occur, the effect on Lake Sherwood would be to lessen the percentage of the PMF which can be accommodated, or in other words, to increase the overtopping potential of Lake Sherwood.

The results of the analysis of overtopping potential is as follows:

Lake	% PMF	Maximum Depth Over Dam (Ft)	Maximum Storage (Ac-Ft)	Peak Outflow Rate (CFS)	Duration Of Overtopping (Hrs)	Time To Peak Outflow (Hrs)
Eleanor	100	2.7	26	1802	11.2	15.83
"	50	1.6	21	902	7.0	15.83
Marian	100	2.0	53	2278	7.6	15.83
"	50	1.3	46	1091	5.4	15.92
Sugar Hollow	100	13.4	426	8540	14.2	16.42
"	50	6.8	288	4270	10.2	16.42
Robin Hood	100	9.4	189	4811	14.5	16.17
"	50	6.0	143	2414	11.6	16.17
Sherwood	100	4.8	1833	24300	7.2	16.42
"	50	2.4	1429	11704	4.7	16.42

The lakes and spillways have been found adequate to accommodate the following.

Lake	% of the P.M.F. Accommodated
Eleanor	Approximately 5
Marian	Approximately 10
Sugar Hollow	Less than 5
Robin Hood	Less than 5
Sherwood	Approximately 20

For the 100 year flood, an event which has a 1% chance of being equaled or exceeded at least once in any given year, the results of the analysis indicate that the spillways of Lake Sherwood are adequate, but those of the upstream reservoirs are not.

d. Overtopping Potential. The spillway has been found to be inadequate to pass the Probable Maximum Flood (PMF) without overtopping the dam. The probable maximum flood is defined as the flood discharge that may be expected from the most severe combination of critical meteorological and hydrologic conditions that are reasonably possible in the region.

The estimated damage zone extends five miles downstream of the dam. Within the damage zone are a wastewater treatment works, seven farm complexes with farmhouses, and one State highway crossing.

SECTION 6 - STRUCTURAL STABILITY

6.1 EVALUATION OF STRUCTURAL STABILITY

a. Visual Observations. Visually observed conditions which can affect the structural stability of this dam have been discussed in Section 3, paragraph 3.1 b.

b. Design and Construction Data. No design or construction data relating to the structural stability of the dam were found except that discussed in Section 1.2, paragraph 1.2 h.

c. Operating Records. No records were available at the time of the inspection.

d. Post-Construction Changes. No post-construction changes other than referenced in Section 1, paragraph 1.2 h exists.

e. Seismic Stability. The location of Lake Sherwood Dam is in Seismic Zone 1. The engineering data available was insufficient to evaluate the seismic stability, however to our knowledge, an earthquake of the magnitude that may reasonably be expected in Seismic Zone 1 has not caused a structural collapse of a dam of this size and magnitude.

SECTION 7 - ASSESSMENT/REMEDIAL MEASURES

7.1 DAM ASSESSMENT

a. Safety. Corrective measures, in our opinion, should be taken for the deficiencies visually observed by the inspection team, i.e. lack of rip rap on the upstream face of the embankment. The spring nearest to the dam, in the left abutment, is not in itself considered a deficiency, however, due to its location, should be monitored. Inadequate spillway capacities are also considered to be a deficiency.

b. Adequacy of Information. Due to the lack of sufficient engineering design and construction data, except that discussed in Section 1, the conclusions of this report were based on performance and external visual conditions. The lack of seepage and stability analyses comparable to the requirements of the recommended guidelines is a deficiency which should be corrected. The inspection team considers that these data are sufficient to support the conslusions herein.

c. Urgency. The deficiencies described herein are serious and corrective actions listed below should be initiated in the near future.

d. Necessity for Phase II. The conclusions of this report are based on a visual inspection and review of data made available. The inspection team considers these to be sufficient to make an adequate assessment of deficiencies and therefore no Phase II inspection is recommended.

7.2 REMEDIAL MEASURES

a. The following remedial measures are recommended.

(1) The spring nearest to the dam should be protected to prevent erosion of the toe of the embankment and the flow channelized to the weir.

(2) Flow from the spring should be monitored on a regular schedule and periodically checked for sedimentation.

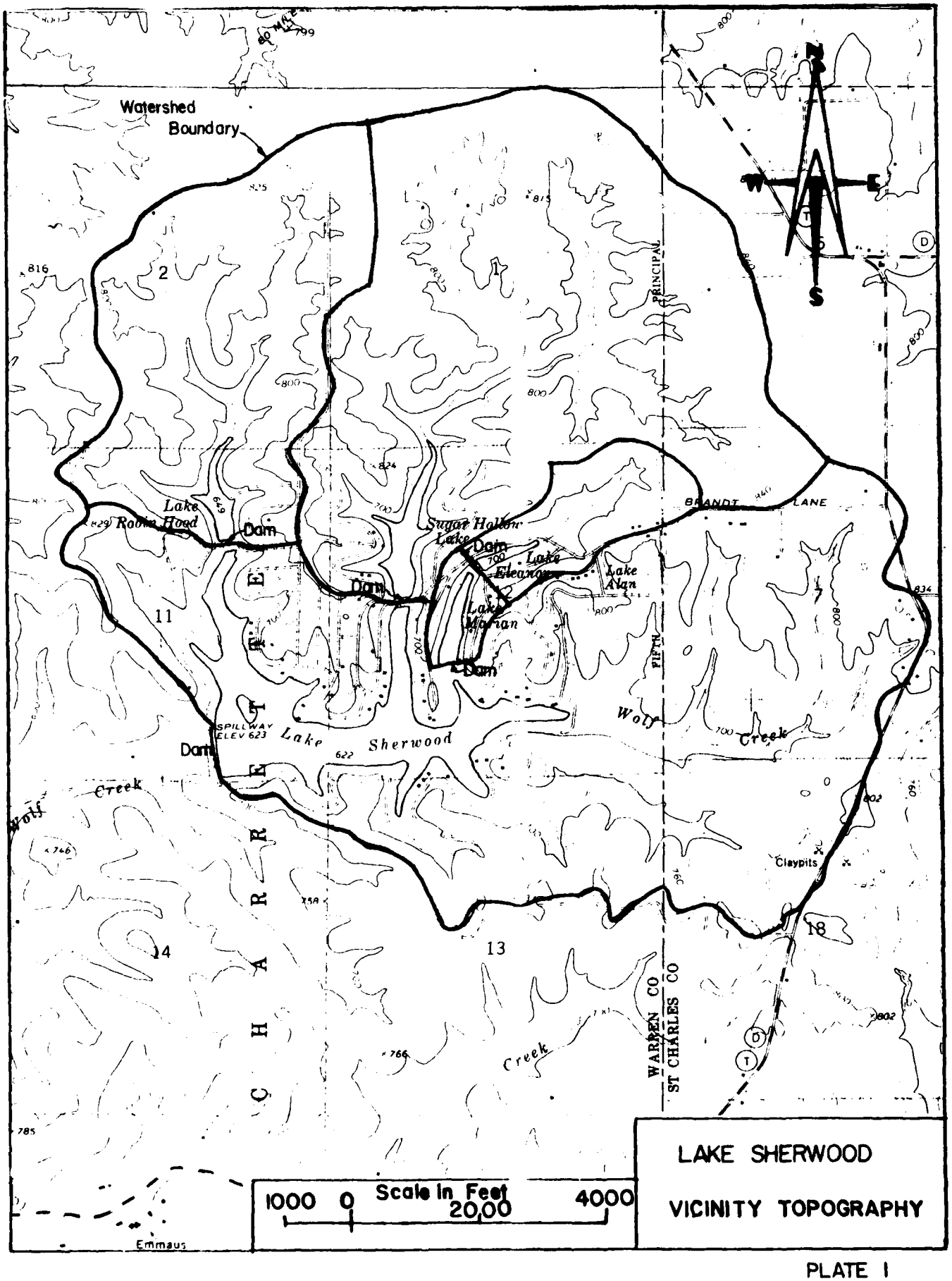
(3) Up-to-date records of all future maintenance and repairs should be kept.

(4) Spillway capacity and/or height of dam should be increased to pass 100 percent (100%) of the Probable Maximum Flood.

(5) Consideration should be given to increasing the spillway capacities and/or height of dams of the upstream reservoirs.

(6) Seepage and stability analyses should be performed by a professional engineer experienced in the design and construction of dams.

(7) The dam should be periodically inspected by an engineer experienced in the design and construction of dams, and records kept of these inspections.


Watershed Boundary
Lake Robin Hood
Dam
Sugar Hollow Lake
Dam
Lake Eleanor
Lake Alan
Dam
Lake Marian
Dam
SPILLWAY ELEV 623
Dam
Lake Sherwood
Wolf Creek
Wolf Creek
Creek
Creek
BRANDT LANE
PRINCIPAL
FIFTH
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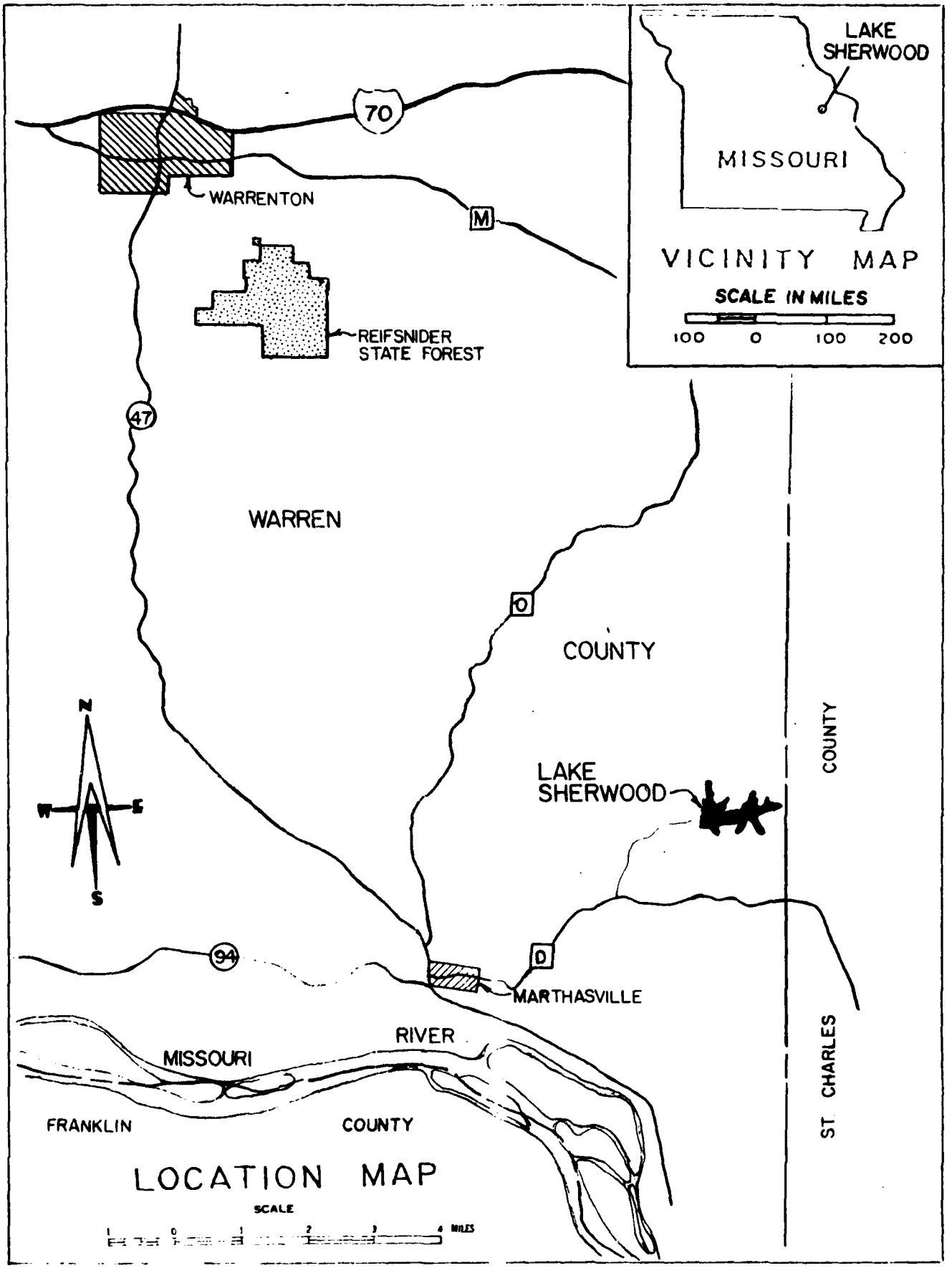
LAKE SHERWOOD
VICINITY TOPOGRAPHY

PLATE 1


LAKE SHERWOOD
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VICINITY MAP
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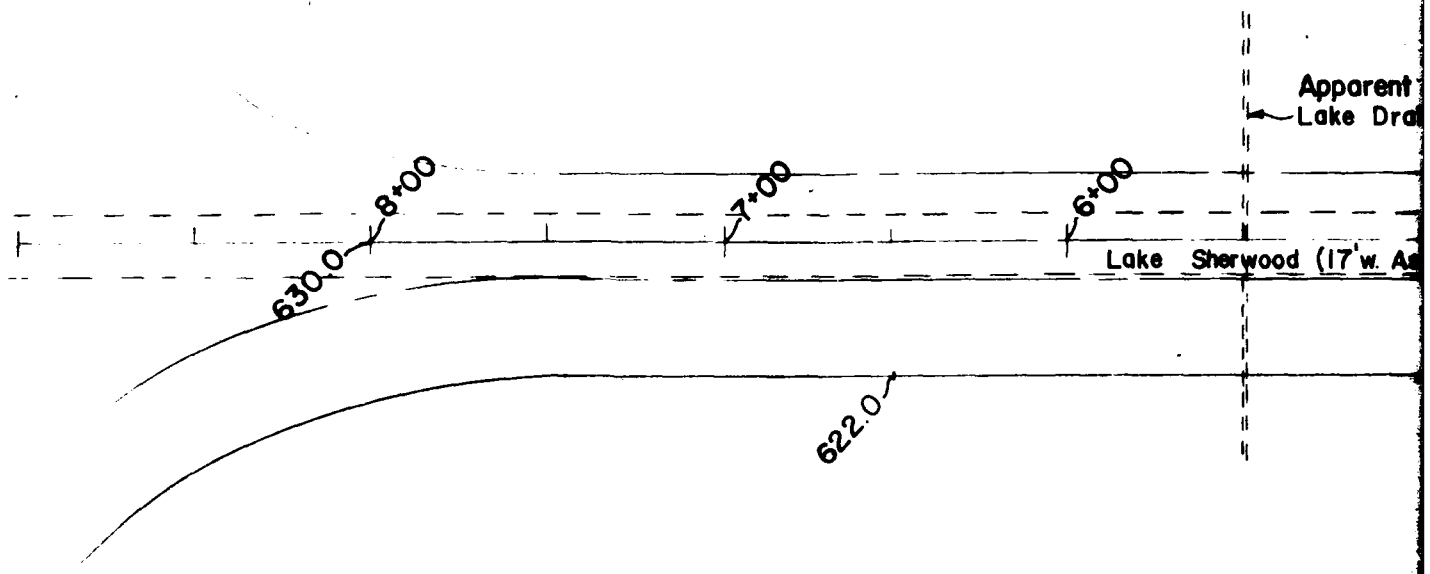
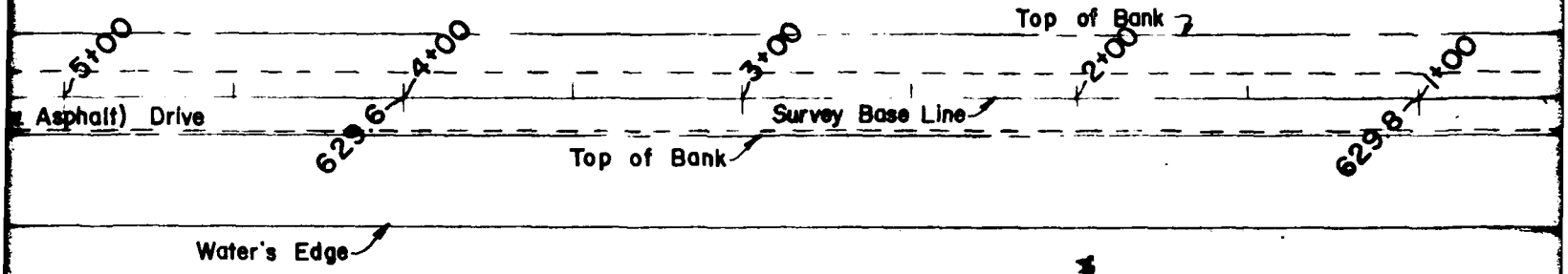
MARTHASVILLE
RIVER
MISSOURI
FRANKLIN
COUNTY
ST CHARLES
LOCATION MAP
SCALE
MILES

PLATE 2


Apparent
Lake Dra
8+00
7+00
6+00
630.0
Lake Sherwood (17'w. As
622.0

Pricip
3 - 3

ent
Drain

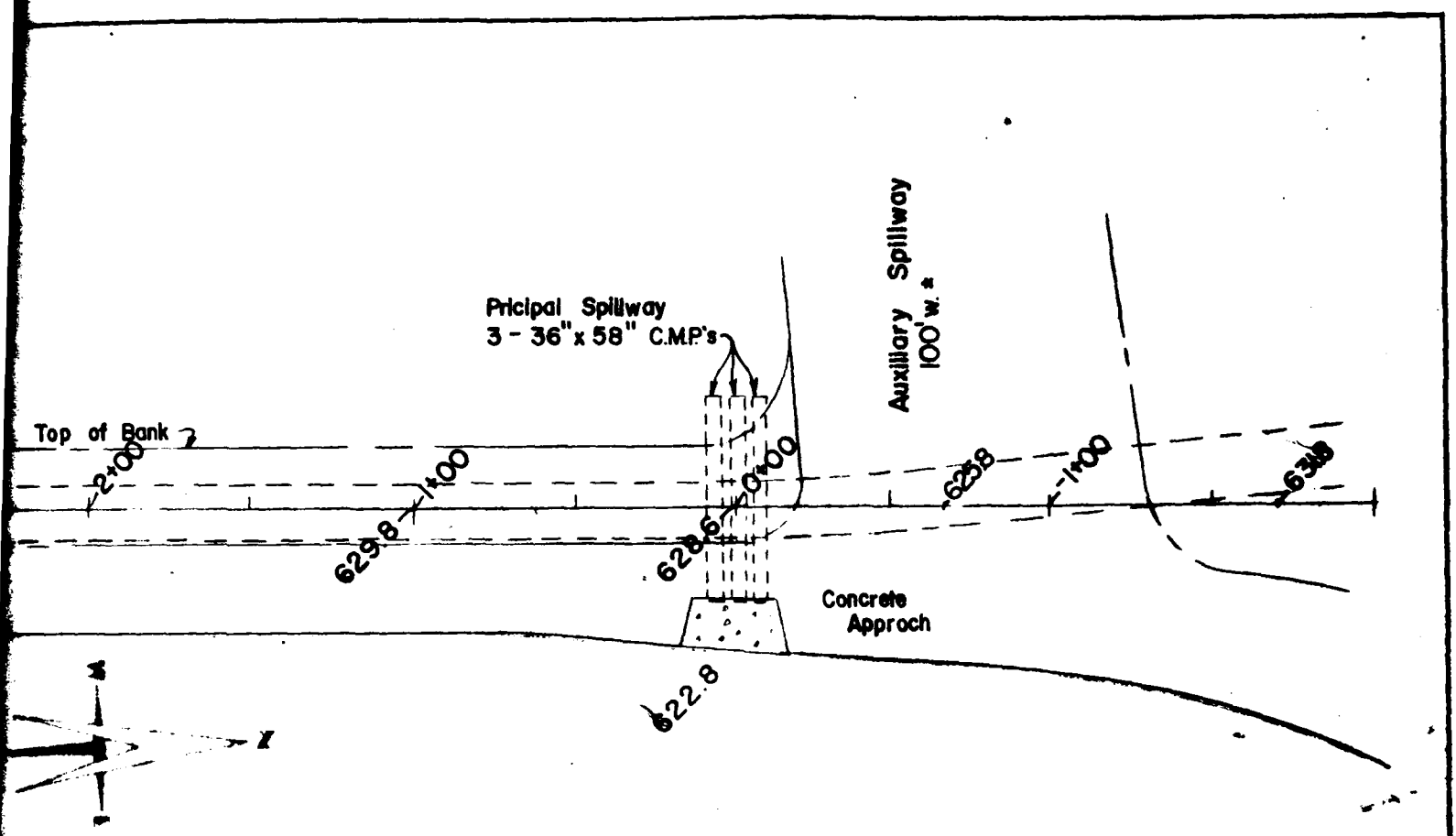


LAKE SHERWOOD

Water Surface Elev. 622.0
(Aug. 25, 1978)

PLAN

Scale: 1"=50'

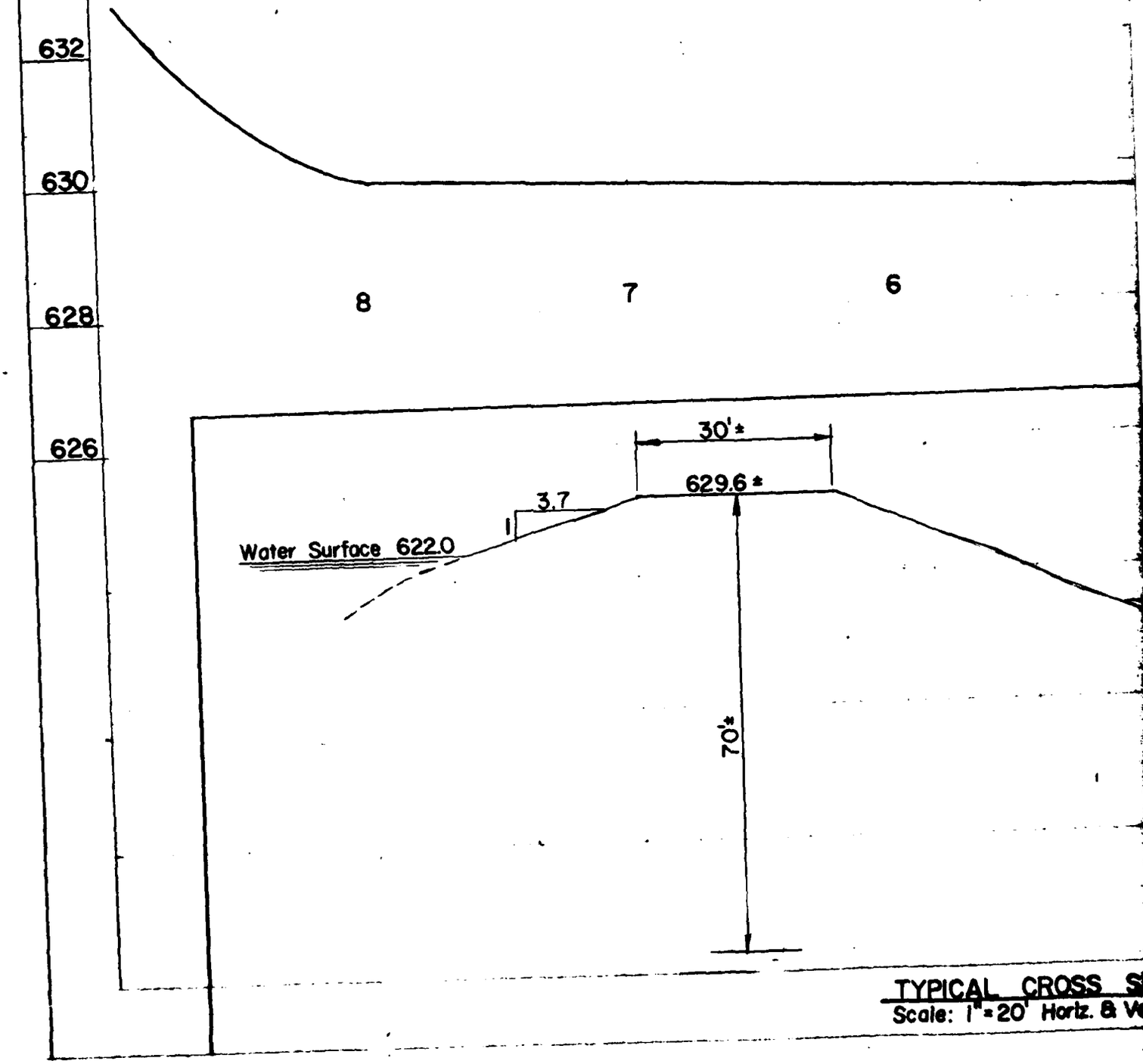


LAKE SHERWOOD

TOP OF DAM ELEVATIONS

Kenneth Balk & Assoc. Inc. Jan. 197

PLATE 3



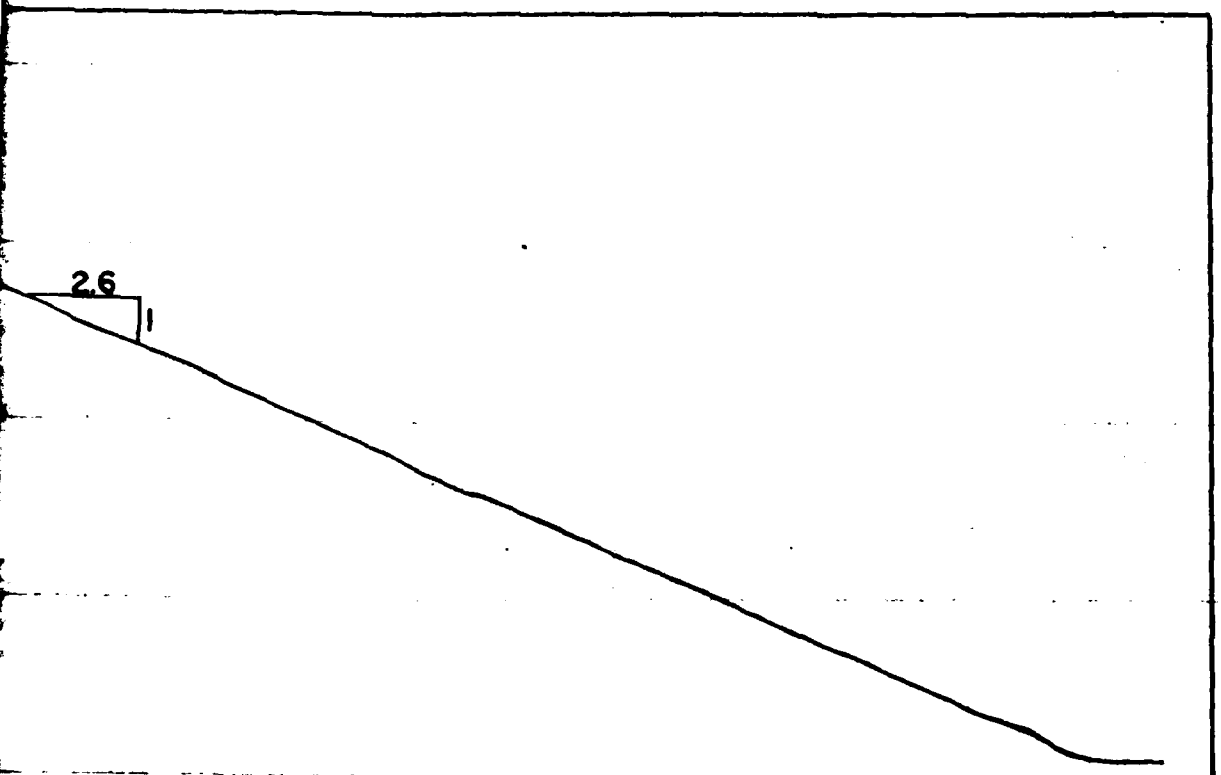
TYPICAL CROSS S

Scale: 1"=20' Horiz. & V

TOP OF DAM

5 4 3 2 1

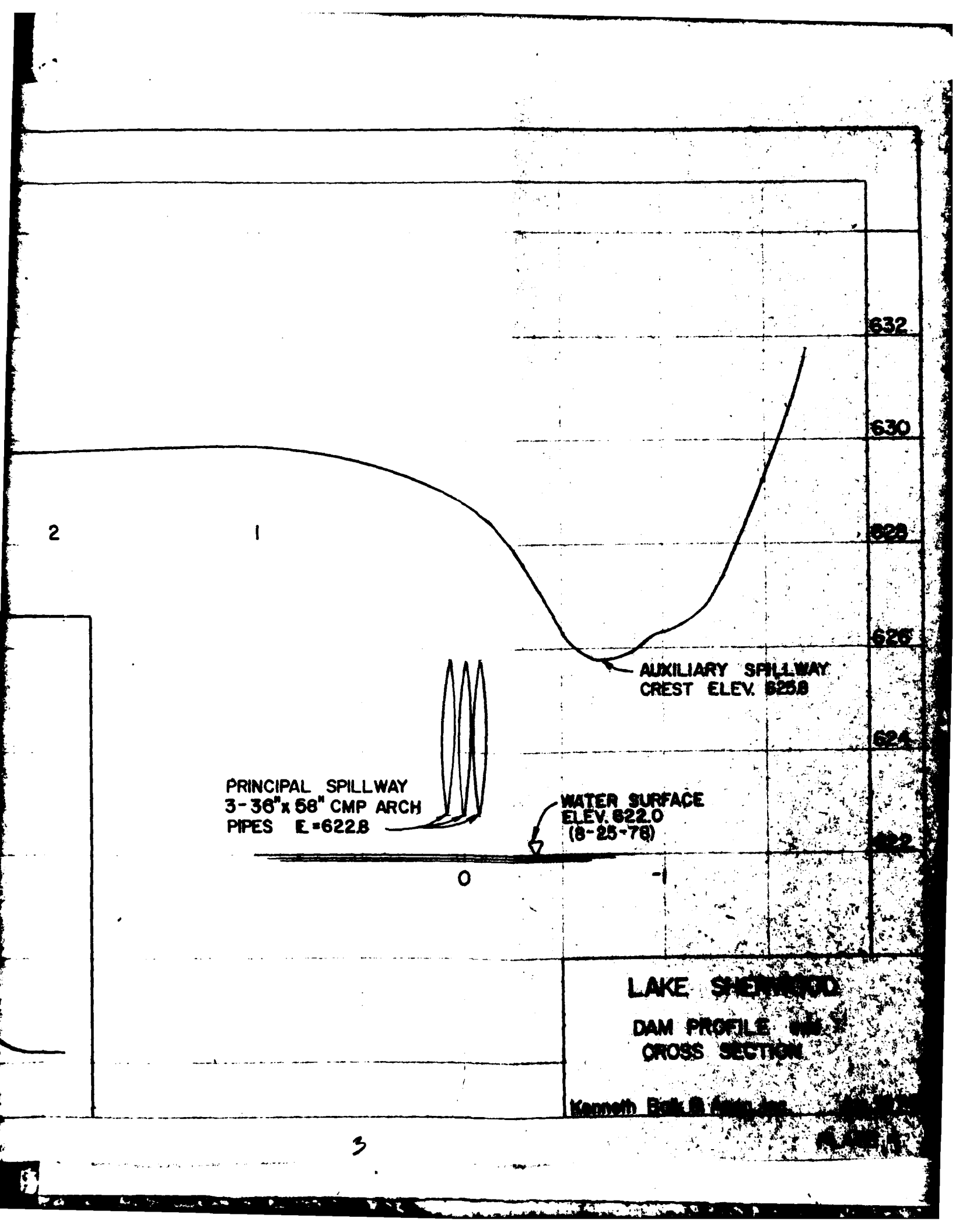
TOP OF DAM PROFILE
Scale: 1" = 2' V., 1" = 50' H.

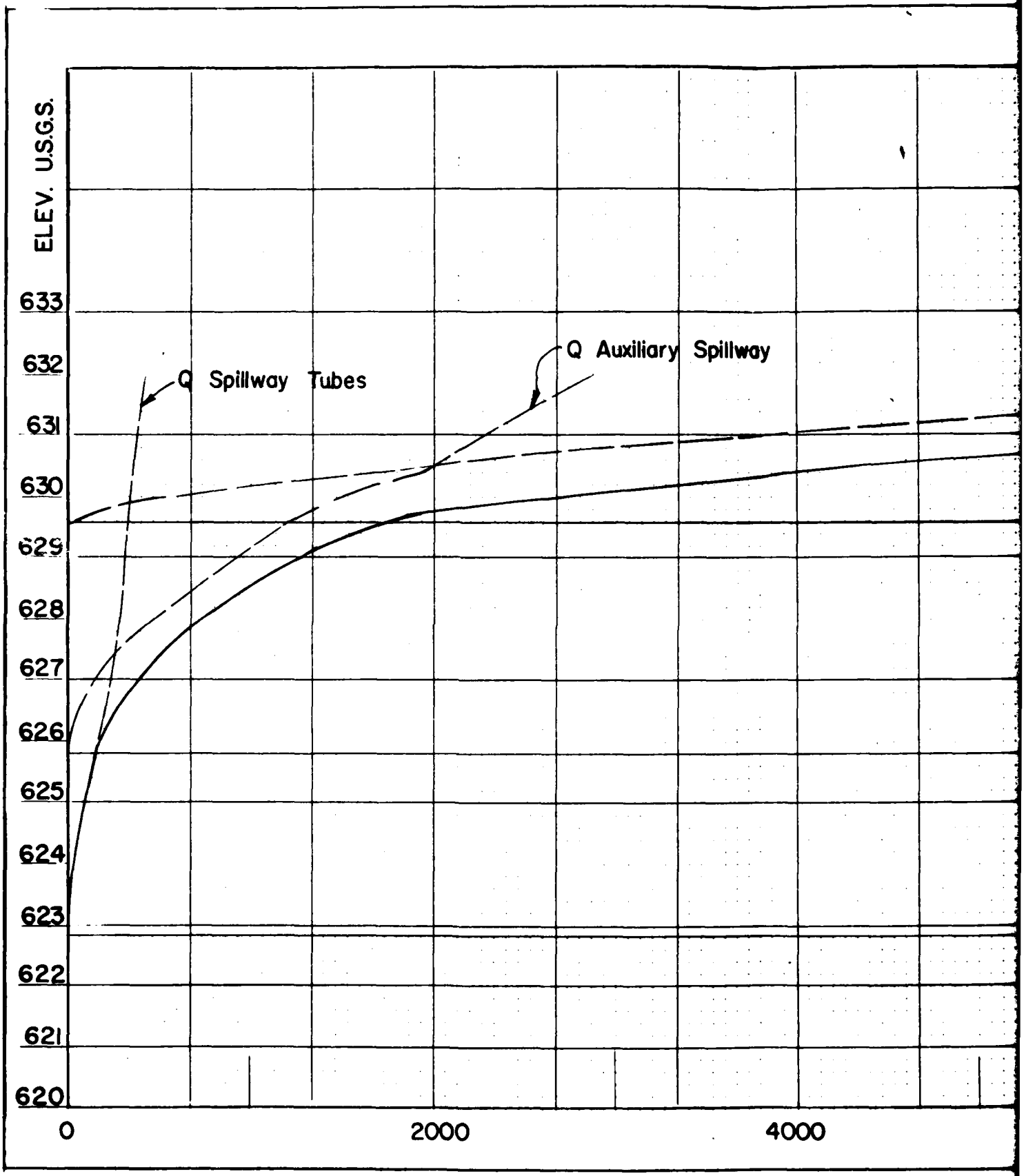


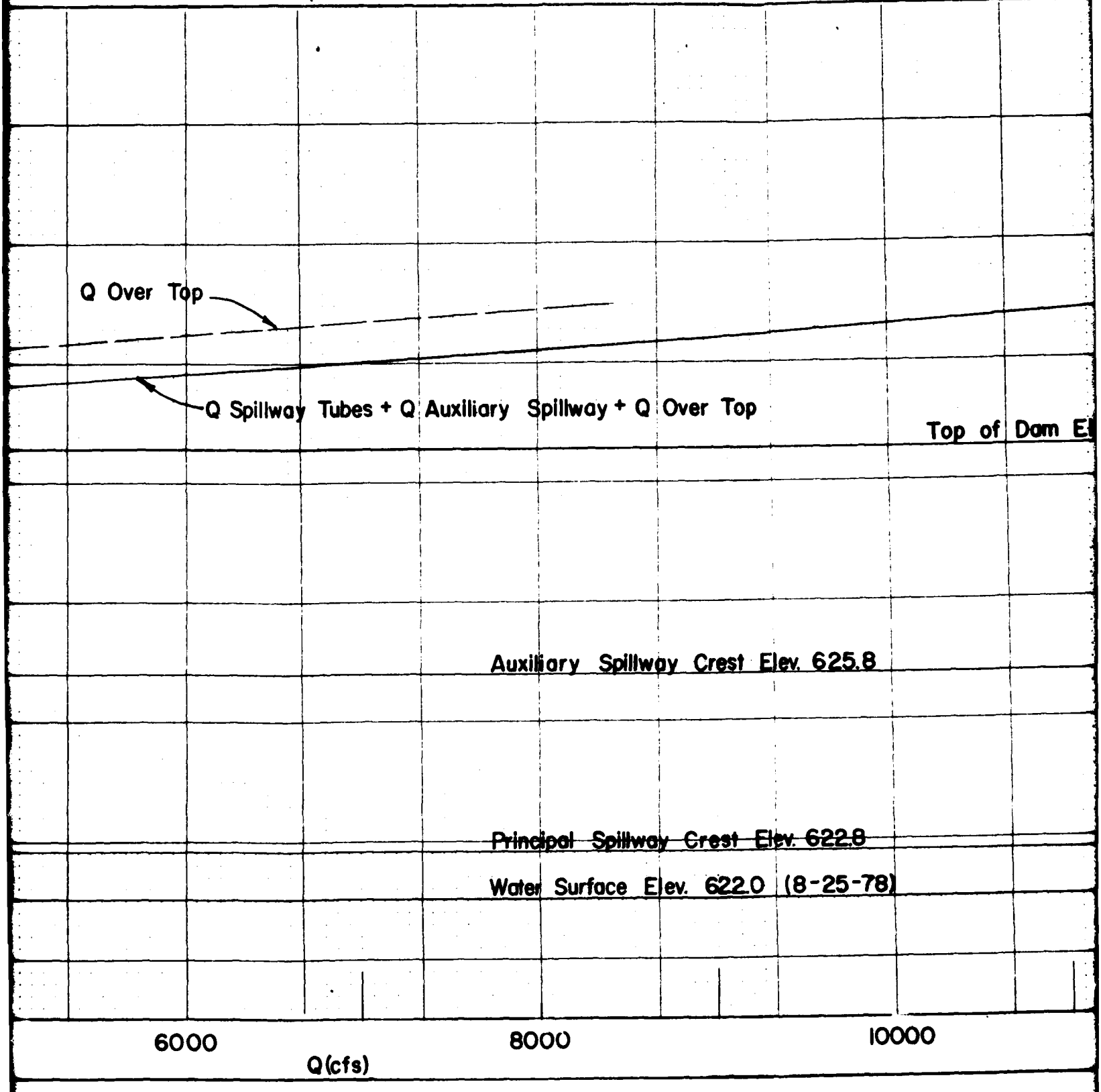
PRINCIPAL
3-36"x 68"
PIPES E

SECTION
Vert.

2


632
630
628
626
624
622
2
1
0
-1
AUXILIARY SPILLWAY
CREST ELEV. 625.8
PRINCIPAL SPILLWAY
3-36"x 58" CMP ARCH
PIPES E=622.8
WATER SURFACE
ELEV. 622.0
(8-25-76)
LAKE SHERWOOD
DAM PROFILE
CROSS SECTION


ELEV. U.S.G.S.
633
632
631
630
629
628
627
626
625
624
623
622
621
620
0
2000
4000
Q Spillway Tubes
Q Auxiliary Spillway

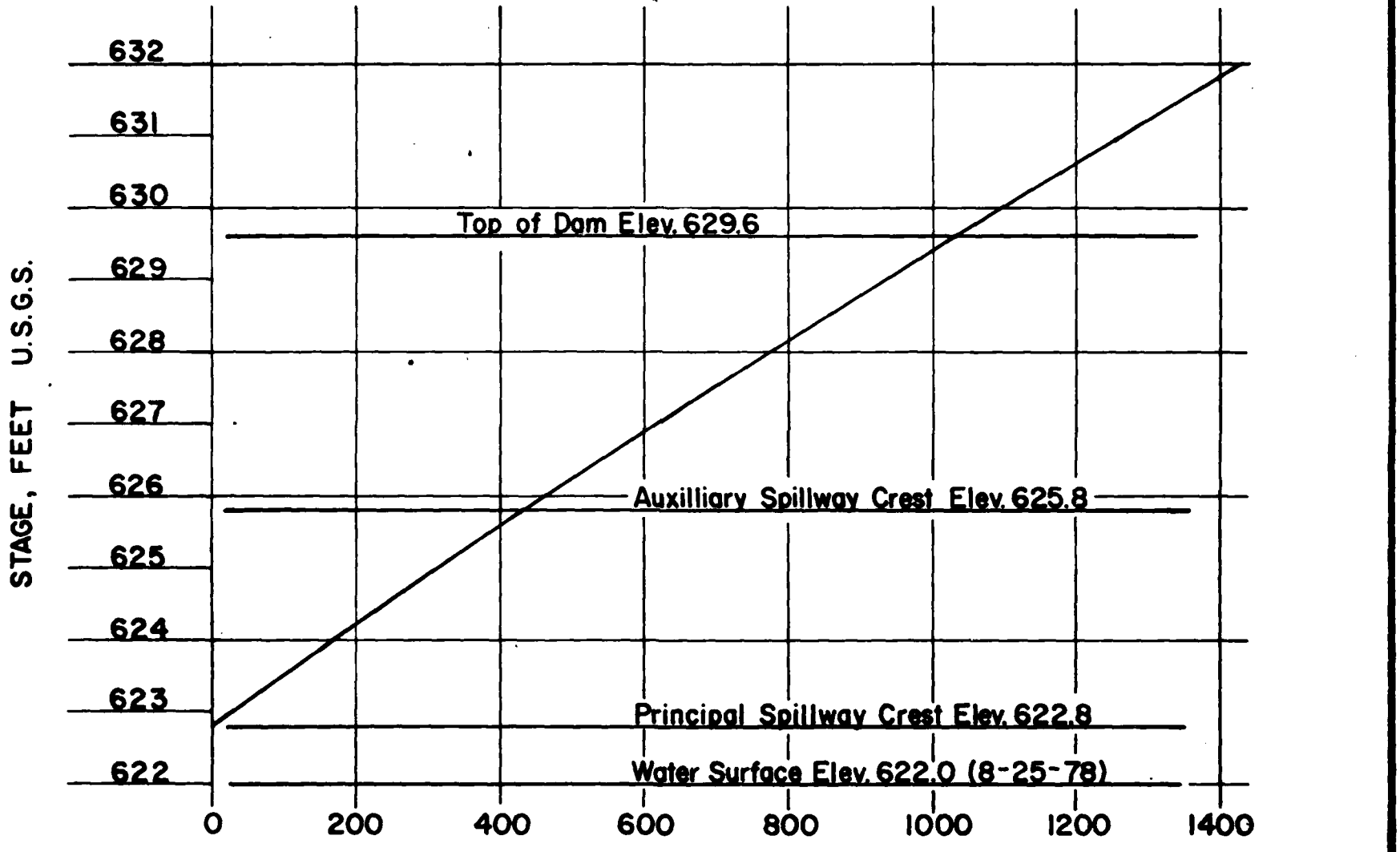

Q Over Top
Q Spillway Tubes + Q Auxiliary Spillway + Q Over Top
Top of Dam El
Auxiliary Spillway Crest Elev. 625.8
Principal Spillway Crest Elev. 622.8
Water Surface Elev. 622.0 (8-25-78)
6000
8000
10000
Q(cfs)

LAKE SHERWOOD

STAGE DISCHARGE CURVE

Kenneth Balk & Assc., Inc. Jan. 1979

PLATE 5



LAKE SHERWOOD

STAGE STORAGE CURVE

Kenneth Balk & Assc., Inc. Jan. 1979

PLATE 6

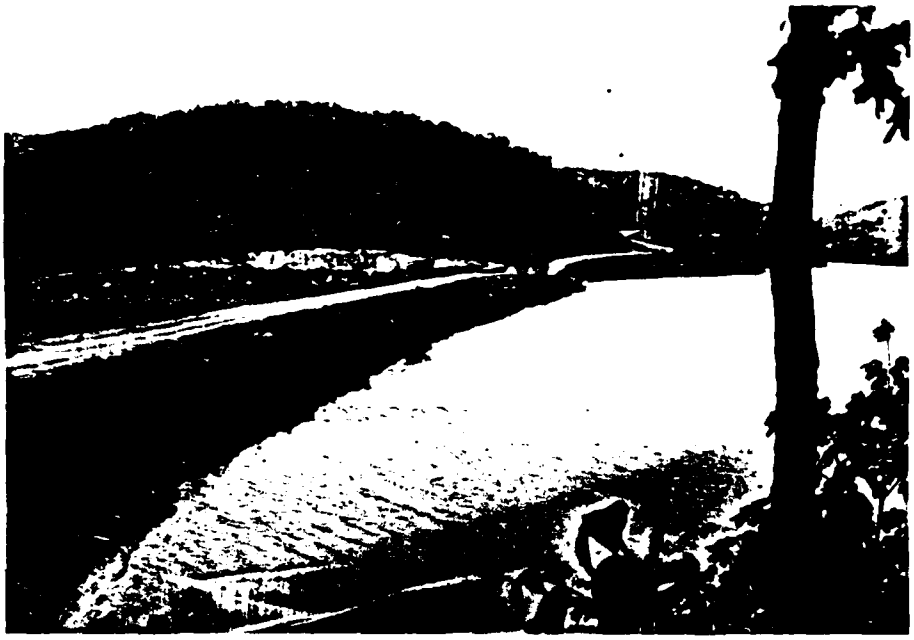


PHOTO 1 Overview of Lake and Dam

PHOTO 2 View from North Bank of Principal Spillway Entrance

PHOTO 3 View from Top of Dam of Principal Spillway Entrance

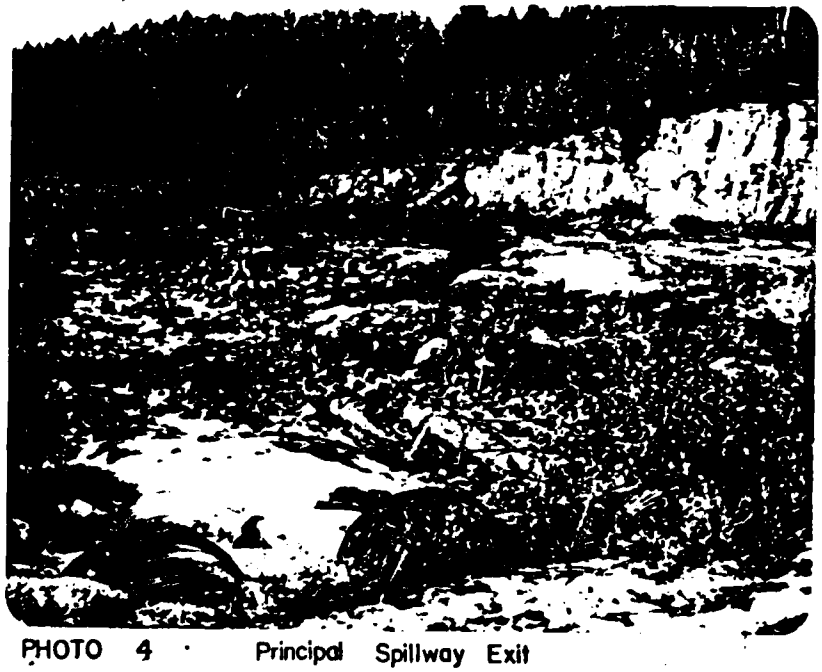


PHOTO 4 Principal Spillway Exit

PHOTO 5 Spring in Left Abutment near Toe of Embankment

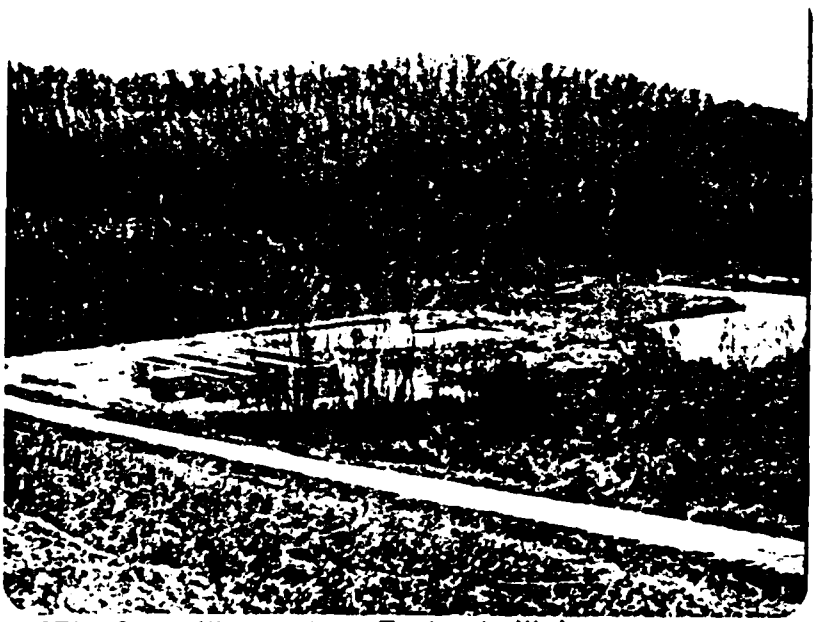


PHOTO 6 Wastewater Treatment Works

APPENDIX A

HYDROLOGIC AND HYDRAULIC ANALYSIS METHODOLOGY

HYDROLOGIC AND HYDRAULIC ANALYSIS METHODOLOGY

1. The hydrologic analysis used in development of the overtopping potential is based on applying a hypothetical storm to a unit hydrograph to obtain the inflow hydrograph for a reservoir routing. The Probable Maximum Precipitation is derived and determined from regional charts prepared by the National Weather Service in "Hydrometeorological Report No. 33." Reduction factors have not been applied. A 24-hour storm duration is assumed with the total rainfall depth distributed over 6-hour periods in accordance with procedures outlined in EM 1110-2-1411 (SPF Determination). The maximum 6-hour rainfall period is then distributed to hourly increments by the same criteria. Within-the-hour distribution is based upon NOAA Technical Memorandum NWS HYDRO-35. The nonpeak 6-hour rainfall periods are distributed uniformly. All distributed values are arranged in a critical sequence by the SPF criteria. The final inflow hydrograph is produced by utilizing the Soil Conservation Service triangle unit hydrograph using Hydrologic Soils Groups "B" and "D", Antecedent Moisture Condition III, and SCS CN 82 used to determine rainfall excess.

2. The reservoir routing is accomplished by using Modified Puls routing techniques wherein the flood hydrograph is routed through lake storage. Hydraulic capacities of the outlet works, spillway, and crest of dam are used as outlet controls in the routing. Storage in the pool area is defined by an elevation-storage capacity curve. The hydraulic capacity of the outlet works, spillway, and top of dam are defined by elevation-discharge curves.

3. Dam overtopping analysis has been conducted by hydrologic methods for this dam and lake. This computation determines the percentage of the PMF hydrograph that the reservoir can contain without the dam being overtopped. An output summary in the hydrologic appendix displays this information as well as other characteristics of the simulated dam overtopping.

4. The above methodology has been accomplished for this report using the systemized computer program HEC-1 (Dam Safety Version), July 1978, prepared by the Hydrologic Engineering Center, U.S. Army Corps of Engineers, Davis, California. The numeric parameters estimated for this site are listed in the attached computer printout. Definitions of these variables are contained in the "User's Manual" for the computer program.

5. The inflow hydrograph was routed through the reservoir using HEC-1's Modified Puls option. Releases were calculated for: 1) the principal spillway and, 2) the flow over the top of the dam. These releases were then combined at each of their respective elevations.

Flow through the principal spillways, three 36"x58" corrugated metal arch pipes, approximately 63.2 feet in length was obtained as follows:

For Part Full Flow:

Stage = $E.G. + h_e$

Where Stage = Pool Elevation

E.G. = Energy Gradient Elevation in pipe = $d_f + \frac{V^2}{2g}$

h_e = entrance loss = $k_e \frac{V^2}{2g}$, with

k_e = 0.5

d_f = depth of flow for a given discharge

$\frac{V^2}{2g}$ = velocity head

The equation then reduces to:

Stage = $IE + d_f + 1.5 \frac{V^2}{2g}$

Where IE = Invert elevation upstream = 622.80 (South Tube)
622.87 (Center Tube)
622.94 (North Tube)

For Full And More Than Full Flow:

Stage = $IE + D_m + \frac{V^2}{2g} + h_f + h_e$

Where Stage = Pool Elevation

IE = Invert elevation downstream = 622.32 (South Tube)
622.02 (Center Tube)
621.71 (North Tube)

D_m = Minor Axis of pipe = 3.0 feet

$\frac{V^2}{2g}$ = Velocity head

h_f = Friction loss = $\frac{Q^2}{K_c} \times L$

Q = Discharge in cfs.

k_c = Conveyance coefficient = 634.93

L = Length = 63.2 feet

h_e = Entrance loss = $k_e \frac{V^2}{2g}$, with k_e = 0.5

With proper substitution of numbers, the equation reduces to:

$$Q = \left(\frac{\text{Stage}-625.32}{.00034}\right)^{\frac{1}{2}} \text{ South Tube}$$

$$Q = \left(\frac{\text{Stage}-625.02}{.0034}\right)^{\frac{1}{2}} \text{ Center}$$

$$Q = \left(\frac{\text{Stage}-624.71}{.00034}\right)^{\frac{1}{2}} \text{ North Tube}$$

Flow through the overflow spillway and over the top of dam was calculated using the weir flow equation:

$$Q = CL(H)^{1.5}$$

where: C = Varies with head as outlined in "Handbook of Hydraulics" by Horace Williams King, revised by Ernest F. Brater.

L = Length in feet (varies with water surface)

H = Head of water in feet (varies with water surface)

Q = Discharge in cfs

```
**********
FLOOD HYDROGRAPH PACKAGE (HEC-1)
DAM SAFETY VERSION     JULY 1978
  LAST MODIFICATION  3 AUG 78
**********
    1              A1                    LAKE SHERWOOD MULTI-RESERVOIR ROUTING
    2              A2                                JAN. 1979
    3              A3                          MO. INV. NO. 10202
    4              B    288       -0        5       -0       -0       -0       -0       -0       -4       -0
    5              H1     5
    6              J      1         6        1
    7              J1   .10       .20       .30      .40      .50     1.00
    8              K      0  INFLOW                                    1        3        1
    9              K1        SUBAREA RUNOFF FOR LAKE ELEANOR
   10              M      1         2       .17                                1                 1
   11              P                26       100      120      130
   12              T                                                                  -1      -86                .10
   13              W2              .20
   14              X    .34        -.1        3
   15              K      1  ROUTING                                   1        3        1
   16              K1        RESERVOIR ROUTING FOR LAKE ELEANOR
   17              Y                                        1        1
   18              Y1     1                                                  -699.78       -1
   19              Y4699.78   700.00    700.5    701.0    701.5    702.0    702.5    703.0    703.5    704.0
   20              Y4 704.5   705.0     705.5    706.0    706.5    707.0
   21              Y5     0    0.47      1.85     4.46     8.40     12.0    31.11    81.80    200.4    588.1
   22              Y51036.1  1483.3    1929.6   2375.5   3160.4   3944.8
   23              $S     0    2.52      4.48     6.49     8.55     10.65    12.80    14.99    17.23    19.52
   24              $S 21.85   24.23     26.65    29.12    31.64    34.20
   25              $E699.78   700.0     700.5    701.0    701.5    702.0    702.5    703.0    703.5    704.0
   26              $E 704.5   705.0     705.5    706.0    706.5    707.0
   27              $$699.78
   28              $D702.70
   29              K      0  INFLOW                                    1        3        1
   30              K1        SUBAREA RUNOFF FOR LAKE MARIAN
   31              M      1         2      .058                               1                 1
   32              P                26       100      120      130
   33              T                                                                  -1      -82                .15
   34              W2              .20
   35              X   0.12        -.1        3
   36              K      2                                          1        3        1
   37              K1        LAKE ELEANOR AND LAKE MARIAN HYDROGRAPHS COMBINED
   38              K      1  ROUTING                                   1        3        1
   39              K1        RESERVOIR ROUTING FOR LAKE MARIAN
   40              Y                                        1        1
   41              Y1     1                                                  -671.02       -1
   42              Y4 671.0   671.5     672.0    672.5    673.0    673.5    674.0    674.5    675.0    675.5
   43              Y4 676.0   676.5     677.0    677.5    678.0    678.5    679.0
   44              Y5     0    1.91      7.04     15.70    25.57    39.76    61.97    74.68    97.28   473.74
   45              Y5855.81  1702.77   2550.27  3701.91  4861.40  5933.53  7053.24
   46              $S     0    4.0       8.25     12.57    16.97    21.45    26.00    30.63    35.33    40.11
   47              $S 44.97   49.91     54.92    60.00    65.16    70.40    75.72
   48              $E 671.0   671.5     672.0    672.5    673.0    673.5    674.0    674.5    675.0    675.5
   49              $E 676.0   676.5     677.0    677.5    678.0    678.5    679.0
   50              $$671.02
```

```
$D 674.8
K       0  INFLOW                                  1       3       1
K1         SUBAREA RUNOFF FOR SUGARHOLLOW LAKE
M       1       2    1.51                                  1                       1
P               26     100     120     130
T                                                                   -1     -82              .10
W2          .55
X   3.02     -.1       3
K       1  ROUTING                                 1       3       1
K1         RESERVOIR ROUTING FOR SUGARHOLLOW LAKE
Y                                       1       1
Y1      1                                                   -650.3      -1
Y4 650.3   650.5   651.0   651.5   652.0   652.5   653.0   653.5   654.0   654.5
Y4 655.0   655.5   656.0   656.5   657.0   657.5   658.0   659.0   660.0   661.0
Y5      0     2.9    19.1    42.9    60.4    68.7    76.1    82.9    89.1    94.9
Y5 100.4   105.6   110.6   115.4   119.9   124.3   129.8   257.1   838.5  1593.5
$S      0     3.1    11.1    19.2    27.4    35.8    44.3    53.0    61.8    70.8
$S   79.9    89.2    98.6   108.1   117.9   127.7   137.7   158.2   179.2   200.9
$E 650.3   650.5   651.0   651.5   652.0   652.5   653.0   653.5   654.0   654.5
$E 655.0   655.5   656.0   656.5   657.0   657.5   658.0   659.0   660.0   661.0
$$ 659.3
$O 658.2
K       0  INFLOW                                  1       3       1
K1         SUBAREA RUNOFF FOR LAKE ROBINHOOD
M       1       2    0.72                                  1                       1
P               26     100     120     130
T                                                                   -1     -82              .10
W2          .45
X   1.44     -.1       3
K       1  ROUTING                                 1       3       1
K1         RESERVOIR ROUTING FOR LAKE ROBINHOOD
Y                                       1       1
Y1      1                                                  -648.07      -1
Y4648.07   649.0   650.0   651.0   652.0   653.0   654.0   655.0   656.0   657.0
Y4 658.0   659.0   660.0   661.0   662.0
Y5      0     2.8    10.7    22.8    33.1    41.5    48.5    54.6    82.7   188.7
Y5 371.0   871.0  1579.2  2287.1  2994.8
$S      0     8.5    17.3    26.5    36.1    46.1    56.5    67.2    78.4    89.9
$S 101.8   114.1   126.7   140.2   153.8
$E648.07   649.0   650.0   651.0   652.0   653.0   654.0   655.0   654.0   657.0
$E 658.0   659.0   660.0   661.0   662.0
$$648.07
$O 655.2
K       0  INFLOW                                  1       3       1
K1         SUBAREA RUNOFF FOR LAKE SHERWOOD
M       1       2    2.13                                  1                       1
P               26     100     120     130
T                                                                   -1     -82              .10
W2          .45
X   4.26     -.1       3
```

```
K       4                                                   1       3       1
K1    LAKES MARIAN, SUGARHOLLOW, ROBINHOOD, AND SHERWOOD HYDROGRAPHS COMBINED
K       1 ROUTING                                                   2       2       1
K1          RESERVOIR ROUTING FOR LAKE SHERWOOD
Y                                                   1       1
Y1      1                                                                   -622.8      -1
Y6  622.8    623.0   623.5   624.0   624.5   625.0   625.5   626.0   626.5   627.0
Y6  627.5    628.0   628.5   629.0   629.5   630.0   630.5   631.0   631.5   632.0
Y5        0    1.72   13.28   35.00   64.03   97.77  134.90  182.54  252.14  376.29
Y5521.81  744.23  995.31 1242.43 1347.53 2645.29 4298.42 6442.76 8929.39 11749.44
S5        0   24.31   99.56  171.75  244.24  318.34  392.42  466.08  541.74  618.97
S5696.20  775.01  853.82  934.20 1014.58 1094.54 1178.50 1262.03 1345.56 1430.67
S   622.8    623.0   623.5   624.0   624.5   625.0   625.5   626.0   626.5   627.0
S   627.5    628.0   628.5   629.0   629.5   630.0   630.5   631.0   631.5   632.0
S   622.8
SD  629.6
K      99
```

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**********
FLOOD HYDROGRAPH PACKAGE (HEC-1)
DAM SAFETY VERSION      JULY 1978
  LAST MODIFICATION  3 AUG 78
**********

RUN  DATE= 01/25/79.
     TIME= 09.12.11.
```

LAKE SHERWOOD MULTI-RESERVOIR ROUTING
JAN. 1979
MO. INV. NO. 10202

JOB SPECIFICATION

NQ	NHR	NMIN	IDAY	IHR	IMIN	METRC	IPLT	IPRT	NSTAN
288	-0	5	-0	-0	-0	-0	-0	-4	-0
			JOPER	NWT	LROPT	TRACE			
			5	-0	-0	-0			

MULTI-PLAN ANALYSES TO BE PERFORMED
NPLAN= 1 NRTIO= 6 LRTIO= 1
RTIOS= .10 .20 .30 .40 .50 1.00

********** ********** ********** ********** **********

SUB-AREA RUNOFF COMPUTATION

SUBAREA RUNOFF FOR LAKE ELEANOR

	ISTAQ	ICOMP	IECON	ITAPE	JPLT	JPRT	INAME	ISTAGE	IAUTO
INFLOW		0	-0	-0	1	3	1	-0	-0

HYDROGRAPH DATA

IHYDG	IUNG	TAREA	SNAP	TRSDA	TRSPC	RATIO	ISNOW	ISAME	LOCAL
1	2	.17	-0.00	.17	1.00	-0.000	-0	1	-0

PRECIP DATA

SPFE	PMS	R6	R12	R24	R48	R72	R96
-0.00	26.00	100.00	120.00	130.00	-0.00	-0.00	-0.00

LOSS DATA

LROPT	STRKR	DLTKR	RTIOL	ERAIN	STRKS	RTIOK	STRTL	CNSTL	ALSMX	RTIMP
-0	-0.00	-0.00	1.00	-0.00	-0.00	1.00	-1.00	-86.00	-0.00	.10

CURVE NO = -86.00 WETNESS = -1.00 EFFECT CN = 86.00

UNIT HYDROGRAPH DATA
TC= -0.00 LAG= .20

RECESSION DATA
STRTQ= .34 QRCSN= -.10 RTIOR= 3.00

UNIT HYDROGRAPH 14 END OF PERIOD ORDINATES, TC= -0.00 HOURS, LAG= .20 VOL= 1.00

83.	273.	339.	271.	151.	87.	49.	28.	16.	9.
5.	3.	2.	1.					

END-OF-PERIOD FLOW

0 MO.DA	HR.MN	PERIOD	RAIN	EXCS	LOSS	COMP Q	MO.DA	HR.MN	PERIOD	RAIN	EXCS	LOSS	COMP Q

1.01	.05	1	.01	.00	.01	0.	1.01	12.05	145	.22	.21	.01	102.
1.01	.10	2	.01	.00	.01	1.	1.01	12.10	146	.22	.21	.01	140.
1.01	.15	3	.01	.00	.01	1.	1.01	12.15	147	.22	.21	.01	187.
1.01	.20	4	.01	.00	.01	2.	1.01	12.20	148	.22	.21	.01	225.
1.01	.25	5	.01	.00	.01	2.	1.01	12.25	149	.22	.21	.01	247.
1.01	.30	6	.01	.00	.01	2.	1.01	12.30	150	.22	.21	.01	259.
1.01	.35	7	.01	.00	.01	2.	1.01	12.35	151	.22	.21	.01	266.
1.01	.40	8	.01	.00	.01	2.	1.01	12.40	152	.22	.21	.01	271.
1.01	.45	9	.01	.00	.01	2.	1.01	12.45	153	.22	.21	.01	273.
1.01	.50	10	.01	.00	.01	2.	1.01	12.50	154	.22	.21	.01	275.
1.01	.55	11	.01	.00	.01	2.	1.01	12.55	155	.22	.21	.01	276.
1.01	1.00	12	.01	.00	.01	2.	1.01	13.00	156	.22	.21	.01	277.
1.01	1.05	13	.01	.00	.01	2.	1.01	13.05	157	.26	.25	.01	281.
1.01	1.10	14	.01	.00	.01	2.	1.01	13.10	158	.26	.25	.01	293.
1.01	1.15	15	.01	.00	.01	2.	1.01	13.15	159	.26	.25	.01	308.
1.01	1.20	16	.01	.00	.01	2.	1.01	13.20	160	.26	.25	.01	320.
1.01	1.25	17	.01	.00	.01	2.	1.01	13.25	161	.26	.26	.00	326.
1.01	1.30	18	.01	.00	.01	2.	1.01	13.30	162	.26	.26	.00	330.
1.01	1.35	19	.01	.00	.01	2.	1.01	13.35	163	.26	.26	.00	333.
1.01	1.40	20	.01	.00	.01	2.	1.01	13.40	164	.26	.26	.00	334.
1.01	1.45	21	.01	.00	.01	2.	1.01	13.45	165	.26	.26	.00	335.
1.01	1.50	22	.01	.00	.01	2.	1.01	13.50	166	.26	.26	.00	336.
1.01	1.55	23	.01	.00	.01	2.	1.01	13.55	167	.26	.26	.00	336.
1.01	2.00	24	.01	.00	.01	2.	1.01	14.00	168	.26	.26	.00	337.
1.01	2.05	25	.01	.00	.01	2.	1.01	14.05	169	.32	.32	.00	342.
1.01	2.10	26	.01	.00	.01	2.	1.01	14.10	170	.32	.32	.00	360.
1.01	2.15	27	.01	.00	.01	2.	1.01	14.15	171	.32	.32	.00	382.
1.01	2.20	28	.01	.00	.01	3.	1.01	14.20	172	.32	.32	.00	400.
1.01	2.25	29	.01	.00	.01	3.	1.01	14.25	173	.32	.32	.00	409.
1.01	2.30	30	.01	.00	.01	3.	1.01	14.30	174	.32	.32	.00	415.
1.01	2.35	31	.01	.00	.01	3.	1.01	14.35	175	.32	.32	.00	419.
1.01	2.40	32	.01	.00	.01	4.	1.01	14.40	176	.32	.32	.00	421.
1.01	2.45	33	.01	.00	.01	4.	1.01	14.45	177	.32	.32	.00	422.
1.01	2.50	34	.01	.00	.01	4.	1.01	14.50	178	.32	.32	.00	423.
1.01	2.55	35	.01	.00	.01	4.	1.01	14.55	179	.32	.32	.00	423.
1.01	3.00	36	.01	.00	.01	5.	1.01	15.00	180	.32	.32	.00	424.
1.01	3.05	37	.01	.00	.01	5.	1.01	15.05	181	.20	.20	.00	413.
1.01	3.10	38	.01	.00	.01	5.	1.01	15.10	182	.40	.39	.00	395.
1.01	3.15	39	.01	.00	.01	5.	1.01	15.15	183	.40	.39	.00	406.
1.01	3.20	40	.01	.00	.01	6.	1.01	15.20	184	.59	.59	.00	455.
1.01	3.25	41	.01	.00	.01	6.	1.01	15.25	185	.69	.69	.00	551.
1.01	3.30	42	.01	.00	.01	6.	1.01	15.30	186	1.68	1.67	.01	744.
1.01	3.35	43	.01	.01	.01	6.	1.01	15.35	187	2.77	2.75	.01	1200.
1.01	3.40	44	.01	.01	.01	6.	1.01	15.40	188	1.09	1.08	.00	1752.
1.01	3.45	45	.01	.01	.01	7.	1.01	15.45	189	.69	.69	.00	1932.
1.01	3.50	46	.01	.01	.01	7.	1.01	15.50	190	.59	.59	.00	1712.
1.01	3.55	47	.01	.01	.01	7.	1.01	15.55	191	.40	.39	.00	1343.
1.01	4.00	48	.01	.01	.01	7.	1.01	16.00	192	.40	.39	.00	1044.
1.01	4.05	49	.01	.01	.01	7.	1.01	16.05	193	.30	.30	.00	826.
1.01	4.10	50	.01	.01	.01	7.	1.01	16.10	194	.30	.30	.00	665.
1.01	4.15	51	.01	.01	.01	8.	1.01	16.15	195	.30	.30	.00	557.
1.01	4.20	52	.01	.01	.01	8.	1.01	16.20	196	.30	.30	.00	489.
1.01	4.25	53	.01	.01	.01	8.	1.01	16.25	197	.30	.30	.00	450.
1.01	4.30	54	.01	.01	.01	8.	1.01	16.30	198	.30	.30	.00	428.
1.01	4.35	55	.01	.01	.01	8.	1.01	16.35	199	.30	.30	.00	414.
1.01	4.40	56	.01	.01	.01	8.	1.01	16.40	200	.30	.30	.00	404.
1.01	4.45	57	.01	.01	.01	9.	1.01	16.45	201	.30	.30	.00	401.
1.01	4.50	58	.01	.01	.01	9.	1.01	16.50	202	.30	.30	.00	400.
1.01	4.55	59	.01	.01	.01	9.	1.01	16.55	203	.30	.30	.00	399.
1.01	5.00	60	.01	.01	.01	9.	1.01	17.00	204	.30	.30	.00	398.
1.01	5.05	61	.01	.01	.01	9.	1.01	17.05	205	.24	.24	.00	393.
1.01	5.10	62	.01	.01	.01	9.	1.01	17.10	206	.24	.24	.00	375.
1.01	5.15	63	.01	.01	.01	9.	1.01	17.15	207	.24	.24	.00	353.

1.01	5.20	64	.01	.01	.01	9.	1.01	17.20	208	.24	.24	.00	336.
1.01	5.25	65	.01	.01	.01	10.	1.01	17.25	209	.24	.24	.00	326.
1.01	5.30	66	.01	.01	.01	10.	1.01	17.30	210	.24	.24	.00	320.
1.01	5.35	67	.01	.01	.01	10.	1.01	17.35	211	.24	.24	.00	317.
1.01	5.40	68	.01	.01	.01	10.	1.01	17.40	212	.24	.24	.00	315.
1.01	5.45	69	.01	.01	.01	10.	1.01	17.45	213	.24	.24	.00	314.
1.01	5.50	70	.01	.01	.01	10.	1.01	17.50	214	.24	.24	.00	314.
1.01	5.55	71	.01	.01	.01	10.	1.01	17.55	215	.24	.24	.00	313.
1.01	6.00	72	.01	.01	.01	10.	1.01	18.00	216	.24	.24	.00	313.
1.01	6.05	73	.07	.04	.03	13.	1.01	18.05	217	.02	.02	.00	295.
1.01	6.10	74	.07	.04	.03	23.	1.01	18.10	218	.02	.02	.00	236.
1.01	6.15	75	.07	.05	.03	35.	1.01	18.15	219	.02	.02	.00	185.
1.01	6.20	76	.07	.05	.03	45.	1.01	18.20	220	.02	.02	.00	160.
1.01	6.25	77	.07	.05	.02	52.	1.01	18.25	221	.02	.02	.00	148.
1.01	6.30	78	.07	.05	.02	56.	1.01	18.30	222	.02	.02	.00	133.
1.01	6.35	79	.07	.05	.02	60.	1.01	18.35	223	.02	.02	.00	119.
1.01	6.40	80	.07	.05	.02	62.	1.01	18.40	224	.02	.02	.00	107.
1.01	6.45	81	.07	.05	.02	64.	1.01	18.45	225	.02	.02	.00	96.
1.01	6.50	82	.07	.05	.02	66.	1.01	18.50	226	.02	.02	.00	86.
1.01	6.55	83	.07	.05	.02	68.	1.01	18.55	227	.02	.02	.00	77.
1.01	7.00	84	.07	.06	.02	69.	1.01	19.00	228	.02	.02	.00	69.
1.01	7.05	85	.07	.06	.02	70.	1.01	19.05	229	.02	.02	.00	62.
1.01	7.10	86	.07	.06	.02	72.	1.01	19.10	230	.02	.02	.00	55.
1.01	7.15	87	.07	.06	.01	73.	1.01	19.15	231	.02	.02	.00	49.
1.01	7.20	88	.07	.06	.01	74.	1.01	19.20	232	.02	.02	.00	44.
1.01	7.25	89	.07	.06	.01	75.	1.01	19.25	233	.02	.02	.00	40.
1.01	7.30	90	.07	.06	.01	75.	1.01	19.30	234	.02	.02	.00	36.
1.01	7.35	91	.07	.06	.01	76.	1.01	19.35	235	.02	.02	.00	32.
1.01	7.40	92	.07	.06	.01	77.	1.01	19.40	236	.02	.02	.00	29.
1.01	7.45	93	.07	.06	.01	78.	1.01	19.45	237	.02	.02	.00	28.
1.01	7.50	94	.07	.06	.01	78.	1.01	19.50	238	.02	.02	.00	28.
1.01	7.55	95	.07	.06	.01	79.	1.01	19.55	239	.02	.02	.00	28.
1.01	8.00	96	.07	.06	.01	80.	1.01	20.00	240	.02	.02	.00	28.
1.01	8.05	97	.07	.06	.01	80.	1.01	20.05	241	.02	.02	.00	28.
1.01	8.10	98	.07	.06	.01	81.	1.01	20.10	242	.02	.02	.00	28.
1.01	8.15	99	.07	.06	.01	81.	1.01	20.15	243	.02	.02	.00	28.
1.01	8.20	100	.07	.06	.01	82.	1.01	20.20	244	.02	.02	.00	28.
1.01	8.25	101	.07	.06	.01	82.	1.01	20.25	245	.02	.02	.00	28.
1.01	8.30	102	.07	.06	.01	83.	1.01	20.30	246	.02	.02	.00	28.
1.01	8.35	103	.07	.06	.01	83.	1.01	20.35	247	.02	.02	.00	28.
1.01	8.40	104	.07	.06	.01	83.	1.01	20.40	248	.02	.02	.00	28.
1.01	8.45	105	.07	.06	.01	84.	1.01	20.45	249	.02	.02	.00	28.
1.01	8.50	106	.07	.06	.01	84.	1.01	20.50	250	.02	.02	.00	28.
1.01	8.55	107	.07	.06	.01	84.	1.01	20.55	251	.02	.02	.00	28.
1.01	9.00	108	.07	.07	.01	85.	1.01	21.00	252	.02	.02	.00	28.
1.01	9.05	109	.07	.07	.01	85.	1.01	21.05	253	.02	.02	.00	28.
1.01	9.10	110	.07	.07	.01	85.	1.01	21.10	254	.02	.02	.00	28.
1.01	9.15	111	.07	.07	.01	86.	1.01	21.15	255	.02	.02	.00	28.
1.01	9.20	112	.07	.07	.01	86.	1.01	21.20	256	.02	.02	.00	28.
1.01	9.25	113	.07	.07	.01	86.	1.01	21.25	257	.02	.02	.00	28.
1.01	9.30	114	.07	.07	.01	86.	1.01	21.30	258	.02	.02	.00	28.
1.01	9.35	115	.07	.07	.01	87.	1.01	21.35	259	.02	.02	.00	28.
1.01	9.40	116	.07	.07	.01	87.	1.01	21.40	260	.02	.02	.00	28.
1.01	9.45	117	.07	.07	.01	87.	1.01	21.45	261	.02	.02	.00	28.
1.01	9.50	118	.07	.07	.01	87.	1.01	21.50	262	.02	.02	.00	28.
1.01	9.55	119	.07	.07	.01	88.	1.01	21.55	263	.02	.02	.00	28.
1.01	10.00	120	.07	.07	.01	88.	1.01	22.00	264	.02	.02	.00	28.
1.01	10.05	121	.07	.07	.01	88.	1.01	22.05	265	.02	.02	.00	28.
1.01	10.10	122	.07	.07	.00	88.	1.01	22.10	266	.02	.02	.00	28.
1.01	10.15	123	.07	.07	.00	88.	1.01	22.15	267	.02	.02	.00	28.
1.01	10.20	124	.07	.07	.00	88.	1.01	22.20	268	.02	.02	.00	28.
1.01	10.25	125	.07	.07	.00	89.	1.01	22.25	269	.02	.02	.00	28.

1.01	10.30	126	.07	.07	.00	89.	1.01	22.30	270	.02	.02	.00	28.
1.01	10.35	127	.07	.07	.00	89.	1.01	22.35	271	.02	.02	.00	28.
1.01	10.40	128	.07	.07	.00	89.	1.01	22.40	272	.02	.02	.00	28.
1.01	10.45	129	.07	.07	.00	89.	1.01	22.45	273	.02	.02	.00	28.
1.01	10.50	130	.07	.07	.00	89.	1.01	22.50	274	.02	.02	.00	28.
1.01	10.55	131	.07	.07	.00	89.	1.01	22.55	275	.02	.02	.00	28.
1.01	11.00	132	.07	.07	.00	90.	1.01	23.00	276	.02	.02	.00	28.
1.01	11.05	133	.07	.07	.00	90.	1.01	23.05	277	.02	.02	.00	28.
1.01	11.10	134	.07	.07	.00	90.	1.01	23.10	278	.02	.02	.00	28.
1.01	11.15	135	.07	.07	.00	90.	1.01	23.15	279	.02	.02	.00	28.
1.01	11.20	136	.07	.07	.00	90.	1.01	23.20	280	.02	.02	.00	28.
1.01	11.25	137	.07	.07	.00	90.	1.01	23.25	281	.02	.02	.00	28.
1.01	11.30	138	.07	.07	.00	90.	1.01	23.30	282	.02	.02	.00	28.
1.01	11.35	139	.07	.07	.00	90.	1.01	23.35	283	.02	.02	.00	28.
1.01	11.40	140	.07	.07	.00	90.	1.01	23.40	284	.02	.02	.00	28.
1.01	11.45	141	.07	.07	.00	91.	1.01	23.45	285	.02	.02	.00	28.
1.01	11.50	142	.07	.07	.00	91.	1.01	23.50	286	.02	.02	.00	28.
1.01	11.55	143	.07	.07	.00	91.	1.01	23.55	287	.02	.02	.00	28.
1.01	12.00	144	.07	.07	.00	91.	1.02	0.00	288	.02	.02	.00	28.
									SUM	33.80	32.11	1.69	42867.
										(859.)	(816.)	(43.)	(1213.86)

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1932.	466.	149.	149.	42871.
CMS	55.	13.	4.	4.	1214.
INCHES		25.51	32.58	32.58	32.58
MM		647.93	827.57	827.57	827.57
AC-FT		231.	295.	295.	295.
THOUS CU M		285.	364.	364.	364.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 1

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	193.	47.	15.	15.	4287.
CMS	5.	1.	0.	0.	121.
INCHES		2.55	3.26	3.26	3.26
MM		64.79	82.76	82.76	82.76
AC-FT		23.	30.	30.	30.
THOUS CU M		29.	36.	36.	36.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 2

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	386.	93.	30.	30.	8574.
CMS	11.	3.	1.	1.	243.
INCHES		5.10	6.52	6.52	6.52
MM		129.59	165.51	165.51	165.51
AC-FT		46.	59.	59.	59.
THOUS CU M		57.	73.	73.	73.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 3

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	579.	140.	45.	45.	12861.
CMS	16.	4.	1.	1.	364.
INCHES		7.65	9.77	9.77	9.77

MM		194.38	248.27	248.27	248.27
AC-FT		69.	89.	89.	89.
THOUS CU M		84.	109.	109.	109.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 4

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	773.	186.	60.	60.	17148.
CMS	22.	5.	2.	2.	486.
INCHES		10.20	13.03	13.03	13.03
MM		259.17	331.03	331.03	331.03
AC-FT		92.	118.	118.	118.
THOUS CU M		114.	146.	146.	146.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 5

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	966.	233.	74.	74.	21435.
CMS	27.	7.	2.	2.	607.
INCHES		12.75	16.29	16.29	16.29
MM		323.97	413.79	413.79	413.79
AC-FT		115.	148.	148.	148.
THOUS CU M		143.	182.	182.	182.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 6

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1932.	466.	149.	149.	42871.
CMS	55.	13.	4.	4.	1214.
INCHES		25.51	32.58	32.58	32.58
MM		647.93	827.57	827.57	827.57
AC-FT		231.	295.	295.	295.
THOUS CU M		285.	364.	364.	364.

HYDROGRAPH ROUTING

RESERVOIR ROUTING FOR LAKE ELEANOR

ISTAQ	ICOMP	IECON	ITAPE	JPLT	JPRT	INAME	ISTAGE	IAUTO
OUTING	1	-0	-0	1	3	1	-0	-0

ROUTING DATA

QLOSS	CLOSS	AVG	IRES	ISAME	IOPT	IPMP	LSTR
-0.0	-0.000	-0.00	1	1	-0	-0	-0

NSTPS	NSTOL	LAG	AMSKK	X	TSK	STORA	ISPRAT
1	-0	-0	-0.000	-0.000	-0.000	-700.	-1

STAGE	699.8	700.0	700.5	701.0	701.5	702.0	702.5	703.0	703.5	704.0
	704.5	705.0	705.5	706.0	706.5	707.0				
FLOW	0.	0.	2.	4.	8.	12.	31.	82.	200.	588.
	1036.	1483.	1930.	2375.	3140.	3945.				

CAPACITY=	0.	3.	4.	6.	9.	11.	13.	15.	17.	20.
	22.	24.	27.	29.	32.	34.				
ELEVATION=	700.	700.	700.	701.	701.	702.	702.	703.	703.	704.
	704.	705.	705.	706.	706.	707.				

CREL	SPWID	COQW	EXPW	ELEVL	COQL	CAREA	EXPL
599.8	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0

DAM DATA

TOPEL	COQD	EXPD	DAMWID
702.7	-0.0	-0.0	-0.

STATION OUTING, PLAN 1, RATIO 1

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	2.	2.	2.
2.	2.	2.	3.	3.	3.	3.	3.	4.	4.
4.	4.	5.	5.	6.	6.	6.	7.	7.	7.
8.	8.	9.	9.	9.	10.	10.	10.	11.	11.
12.	12.	13.	15.	17.	20.	24.	33.	55.	74.
89.	99.	97.	90.	82.	77.	73.	69.	65.	61.
58.	56.	53.	51.	50.	49.	46.	45.	43.	41.
40.	39.	38.	37.	36.	35.	35.	33.	32.	30.
30.	29.	28.	27.	26.	25.	24.	23.	22.	21.
20.	19.	18.	17.	17.	16.	15.	14.	14.	13.
12.	12.	12.	12.	12.	12.	11.	11.	11.	11.
11.	11.	11.	11.	11.	11.	10.	10.	10.	10.
10.	10.	10.	10.	10.	10.	10.	10.	9.	9.
9.	9.	9.	9.	9.	9.	9.	9.	9.	9.
9.	9.	8.	8.	9.	8.	8.	8.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	2.	2.	2.	2.
2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	3.	3.	3.	3.	3.	3.	3.
3.	3.	3.	3.	3.	3.	3.	3.	3.	3.

3.	4.	4.	4.	4.	4.	4.	4.	4.	4.
4.	5.	5.	5.	5.	5.	6.	6.	6.	6.
6.	6.	7.	7.	7.	7.	7.	8.	8.	8.
8.	8.	9.	9.	9.	9.	10.	10.	10.	10.
10.	11.	11.	11.	11.	12.	12.	13.	14.	15.
15.	15.	15.	15.	15.	15.	15.	14.	14.	14.
14.	14.	14.	14.	14.	14.	13.	13.	13.	13.
13.	13.	13.	13.	13.	13.	13.	13.	13.	13.
13.	13.	12.	12.	12.	12.	12.	12.	12.	12.
12.	11.	11.	11.	11.	11.	11.	11.	11.	11.
11.	11.	11.	11.	10.	10.	10.	10.	10.	10.
10.	10.	10.	10.	10.	10.	10.	10.	10.	10.
10.	10.	9.	9.	9.	9.	9.	9.	9.	9.
9.	9.	9.	9.	9.	9.	9.	9.	9.	9.
9.	9.	9.	9.	9.	8.	8.	8.		

STAGE

699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.9	699.9	699.9	699.9	699.9	699.9	699.9
699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9
699.9	699.9	699.9	699.9	700.0	700.0	700.0	700.0	700.0	700.0
700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.1	700.1	700.1
700.1	700.1	700.1	700.1	700.2	700.2	700.2	700.2	700.2	700.2
700.2	700.3	700.3	700.3	700.3	700.3	700.3	700.4	700.4	700.5
700.5	700.5	700.6	700.6	700.7	700.7	700.8	700.8	700.8	700.9
700.9	701.0	701.0	701.1	701.1	701.2	701.2	701.3	701.3	701.4
701.4	701.5	701.5	701.6	701.6	701.7	701.7	701.8	701.8	701.9
701.9	702.0	702.0	702.1	702.1	702.2	702.3	702.5	702.7	702.9
703.0	703.1	703.1	703.0	703.0	703.0	702.9	702.9	702.8	702.8
702.8	702.7	702.7	702.7	702.7	702.7	702.7	702.6	702.6	702.6
702.6	702.6	702.6	702.6	702.5	702.5	702.5	702.5	702.5	702.5
702.5	702.4	702.4	702.4	702.4	702.3	702.3	702.3	702.3	702.2
702.2	702.2	702.2	702.1	702.1	702.1	702.1	702.1	702.0	702.0
702.0	702.0	702.0	702.0	702.0	701.9	701.9	701.9	701.9	701.9
701.9	701.9	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8
701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.6	701.6
701.6	701.6	701.6	701.6	701.6	701.6	701.6	701.6	701.5	701.5
701.5	701.5	701.5	701.5	701.5	701.5	701.5	701.5		

PEAK OUTFLOW IS 99. AT TIME 16.00 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	99.	34.	11.	11.	3027.
CMS	3.	1.	0.	0.	86.
INCHES		1.88	2.30	2.30	2.30
MM		47.76	58.43	58.43	58.43
AC-FT		17.	21.	21.	21.
THOUS CU M		21.	26.	26.	26.

MAXIMUM STORAGE = 15.

STATION OUTING, PLAN 1, RATIO 2

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	2.	2.	2.	2.	2.	2.
2.	2.	2.	3.	3.	3.	3.	3.	3.	3.
3.	4.	4.	4.	4.	4.	4.	4.	4.	5.
5.	5.	5.	5.	6.	6.	6.	7.	7.	8.
8.	9.	9.	10.	10.	11.	11.	12.	15.	18.
20.	23.	26.	28.	30.	35.	40.	44.	47.	51.
54.	57.	61.	64.	67.	69.	71.	73.	75.	76.
77.	78.	78.	79.	83.	97.	127.	179.	289.	344.
316.	259.	206.	185.	166.	147.	131.	117.	107.	99.
94.	90.	87.	85.	83.	81.	80.	79.	77.	75.
74.	72.	71.	70.	69.	68.	67.	65.	62.	58.
54.	50.	46.	43.	40.	37.	34.	31.	30.	29.
28.	27.	25.	25.	23.	22.	21.	21.	20.	19.
18.	17.	17.	16.	15.	15.	14.	14.	13.	13.
12.	12.	12.	12.	12.	12.	12.	12.	12.	11.
11.	11.	11.	11.	11.	11.	11.	11.	11.	11.
11.	11.	11.	11.	11.	10.	10.	10.	10.	10.
10.	10.	10.	10.	10.	10.	10.	10.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	2.	2.	2.	2.	2.	2.	2.	2.	2.
3.	3.	3.	3.	3.	3.	3.	3.	3.	4.
4.	4.	4.	4.	4.	4.	4.	4.	4.	5.
5.	5.	5.	5.	5.	5.	5.	5.	6.	6.
6.	6.	6.	6.	6.	6.	6.	6.	6.	7.
7.	7.	7.	7.	7.	7.	7.	8.	8.	8.
8.	9.	9.	9.	10.	10.	10.	11.	11.	11.
12.	12.	12.	12.	13.	13.	13.	13.	13.	14.
14.	14.	14.	14.	14.	14.	15.	15.	15.	15.
15.	15.	15.	15.	15.	15.	16.	17.	18.	18.
18.	18.	17.	17.	17.	16.	16.	16.	15.	15.
15.	15.	15.	15.	15.	15.	15.	15.	15.	15.
15.	15.	15.	14.	14.	14.	14.	14.	14.	14.
14.	14.	13.	13.	13.	13.	13.	13.	13.	13.
12.	12.	12.	12.	12.	12.	12.	12.	12.	11.
11.	11.	11.	11.	11.	11.	11.	11.	11.	11.
11.	11.	11.	11.	11.	10.	10.	10.	10.	10.
10.	10.	10.	10.	10.	10.	10.	10.	10.	10.
10.	10.	10.	10.	10.	10.	10.	10.	10.	10.
10.	10.	10.	9.	9.	9.	9.	9.		

STAGE

699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.9	699.9	699.9	699.9	699.9	699.9	699.9
699.9	699.9	699.9	699.9	699.9	700.0	700.0	700.0	700.0	700.0
700.0	700.0	700.1	700.1	700.1	700.1	700.2	700.2	700.2	700.3
700.3	700.3	700.3	700.4	700.4	700.4	700.4	700.5	700.5	700.5
700.6	700.6	700.6	700.6	700.7	700.7	700.7	700.7	700.8	700.8
700.8	700.8	700.9	700.9	700.9	700.9	701.0	701.0	701.0	701.0
701.0	701.1	701.1	701.1	701.1	701.2	701.2	701.3	701.3	701.4
701.5	701.6	701.6	701.7	701.8	701.9	701.9	702.0	702.1	702.1
702.2	702.3	702.4	702.4	702.5	702.5	702.6	702.6	702.7	702.7
702.7	702.8	702.8	702.8	702.9	702.9	702.9	702.9	702.9	702.9
703.0	703.0	703.0	703.0	703.0	703.1	703.2	703.4	703.6	703.7
703.6	703.6	703.5	703.4	703.4	703.3	703.2	703.1	703.1	703.1
703.1	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	702.9
702.9	702.9	702.9	702.9	702.9	702.9	702.9	702.8	702.8	702.8
702.7	702.7	702.7	702.6	702.6	702.6	702.5	702.5	702.5	702.4
702.4	702.4	702.4	702.3	702.3	702.3	702.2	702.2	702.2	702.2
702.2	702.1	702.1	702.1	702.1	702.1	702.1	702.0	702.0	702.0
702.0	702.0	702.0	702.0	702.0	702.0	702.0	701.9	701.9	701.9
701.9	701.9	701.9	701.9	701.9	701.9	701.9	701.9	701.8	701.8
701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8	701.8
701.7	701.7	701.7	701.7	701.7	701.7	701.7	701.7		

PEAK OUTFLOW IS 344. AT TIME 15.83 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	344.	85.	25.	25.	7136.
CMS	10.	2.	1.	1.	202.
INCHES		4.66	5.42	5.42	5.42
MM		118.40	137.74	137.74	137.74
AC-FT		42.	49.	49.	49.
THOUS CU M		52.	61.	61.	61.

MAXIMUM STORAGE = 18.

STATION OUTING, PLAN 1, RATIO 3

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	1.	1.	1.	1.	1.	1.	1.
1.	1.	2.	2.	2.	2.	2.	2.	3.	3.

1.	1.	2.	2.	2.	2.	2.	2.	3.	3.
3.	3.	3.	4.	4.	4.	4.	4.	5.	5.
5.	6.	6.	6.	6.	7.	7.	7.	7.	8.
8.	8.	8.	9.	9.	9.	9.	9.	10.	10.
10.	10.	10.	11.	11.	11.	12.	13.	16.	20.
23.	[illegible]	30.	36.	43.	49.	54.	59.	63.	68.
72.	76.	80.	83.	89.	92.	95.	97.	98.	100.
104.	108.	112.	115.	118.	120.	122.	124.	125.	125.
125.	124.	123.	125.	133.	152.	195.	370.	504.	535.
479.	390.	310.	246.	200.	187.	173.	160.	150.	141.
135.	131.	128.	125.	123.	121.	117.	113.	109.	105.
103.	100.	98.	97.	95.	96.	94.	90.	82.	78.
73.	68.	64.	59.	55.	51.	47.	44.	40.	37.
34.	31.	30.	29.	28.	27.	26.	25.	24.	23.
22.	21.	20.	20.	19.	18.	18.	17.	17.	16.
16.	15.	15.	15.	14.	14.	14.	13.	13.	13.
12.	12.	12.	12.	12.	12.	12.	12.	12.	12.
12.	12.	12.	12.	12.	12.	11.	11.	11.	11.
11.	11.	11.	11.	11.	11.	11.	11.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	1.	1.
1.	1.	1.	1.	1.	1.	2.	2.	2.	2.
2.	2.	3.	3.	3.	3.	3.	3.	3.	4.
4.	4.	4.	4.	4.	5.	5.	5.	5.	5.
5.	6.	6.	6.	6.	6.	6.	6.	7.	7.
7.	7.	7.	7.	7.	8.	8.	8.	8.	8.
8.	8.	9.	9.	9.	9.	9.	9.	9.	9.
10.	10.	10.	10.	10.	10.	10.	11.	11.	12.
12.	12.	13.	13.	13.	14.	14.	14.	14.	14.
15.	15.	15.	15.	15.	15.	15.	15.	15.	15.
15.	15.	16.	16.	16.	15.	16.	16.	16.	16.
16.	16.	16.	16.	16.	16.	17.	18.	19.	19.
19.	18.	18.	18.	17.	17.	17.	16.	16.	16.
16.	15.	16.	16.	16.	16.	16.	16.	16.	15.
15.	15.	15.	15.	15.	15.	15.	15.	15.	15.
15.	14.	14.	14.	14.	14.	13.	13.	13.	13.
13.	13.	13.	13.	12.	12.	12.	12.	12.	12.
12.	12.	12.	12.	11.	11.	11.	11.	11.	11.
11.	11.	11.	11.	11.	11.	11.	11.	11.	11.
11.	11.	11.	11.	11.	11.	11.	11.	11.	10.
10.	10.	10.	10.	10.	10.	10.	10.	10.	10.
10.	10.	10.	10.	10.	10.	10.	10.		

STAGE

699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.9	699.8
699.8	699.8	699.9	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.9	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.9	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	700.0
700.0	700.0	700.0	700.0	700.1	700.1	700.2	700.2	700.2	700.3
700.3	700.4	700.4	700.4	700.5	700.5	700.6	700.6	700.6	700.7

700.7	700.8	700.8	700.8	700.9	700.9	701.0	701.0	701.0	701.1
701.1	701.1	701.2	701.2	701.2	701.3	701.3	701.3	701.4	701.4
701.4	701.5	701.5	701.5	701.6	701.6	701.6	701.6	701.7	701.7
701.7	701.8	701.8	701.8	701.8	701.9	701.9	702.0	702.1	702.2
702.3	702.4	702.5	702.6	702.6	702.7	702.7	702.8	702.8	702.9
702.9	702.9	703.0	703.0	703.0	703.0	703.1	703.1	703.1	703.1
703.1	703.1	703.1	703.1	703.2	703.2	703.2	703.2	703.2	703.2
703.2	703.2	703.2	703.2	703.2	703.3	703.5	703.7	703.9	703.9
703.9	703.7	703.6	703.6	703.5	703.4	703.4	703.3	703.3	703.3
703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.1	703.1	703.1
703.1	703.1	703.1	703.1	703.1	703.1	703.1	703.0	703.0	703.0
702.9	702.9	702.8	702.8	702.7	702.7	702.7	702.6	702.6	702.6
702.5	702.5	702.5	702.4	702.4	702.4	702.4	702.3	702.3	702.3
702.3	702.2	702.2	702.2	702.2	702.2	702.2	702.1	702.1	702.1
702.1	702.1	702.1	702.1	702.1	702.0	702.0	702.0	702.0	702.0
702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
702.0	702.0	701.9	701.9	701.9	701.9	701.9	701.9	701.9	701.9
701.9	701.9	701.9	701.9	701.9	701.9	701.9	701.9		

PEAK OUTFLOW IS 535. AT TIME 15.83 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	535.	135.	39.	39.	11282.
CMS	15.	4.	1.	1.	319.
INCHES		7.39	8.57	8.57	8.57
MM		187.80	217.79	217.79	217.79
AC-FT		67.	78.	78.	78.
THOUS CU M		83.	96.	96.	96.

MAXIMUM STORAGE = 19.

STATION OUTING, PLAN 1, RATIO 4

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	1.	1.
1.	1.	1.	1.	1.	2.	2.	2.	2.	2.
3.	3.	3.	4.	4.	4.	4.	5.	5.	5.
6.	6.	7.	7.	7.	8.	8.	8.	9.	9.
9.	10.	10.	10.	10.	11.	11.	11.	12.	12.
13.	14.	15.	17.	18.	19.	20.	21.	22.	23.
24.	24.	25.	26.	26.	28.	30.	36.	45.	53.
61.	68.	74.	79.	86.	93.	99.	104.	108.	114.
118.	122.	125.	128.	129.	131.	132.	133.	134.	136.
139.	144.	149.	154.	158.	161.	163.	165.	166.	167.
167.	166.	164.	166.	177.	205.	340.	524.	688.	720.
633.	515.	411.	328.	267.	224.	199.	192.	185.	178.
173.	170.	167.	165.	163.	160.	156.	151.	145.	141.
137.	134.	131.	130.	128.	127.	126.	120.	109.	97.
86.	80.	75.	71.	66.	62.	58.	51.	49.	46.
42.	39.	35.	32.	31.	29.	28.	27.	26.	26.

25.	24.	23.	22.	22.	21.	21.	20.	20.	19.
19.	18.	18.	17.	17.	17.	16.	16.	16.	16.
15.	15.	15.	15.	14.	14.	14.	14.	14.	14.
14.	13.	13.	13.	13.	13.	13.	13.	13.	13.
13.	12.	12.	12.	12.	12.	12.	12.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	1.	1.	1.	1.
1.	1.	2.	2.	2.	2.	2.	2.	3.	3.
3.	3.	4.	4.	4.	4.	4.	5.	5.	5.
5.	5.	6.	6.	6.	6.	6.	7.	7.	7.
7.	7.	8.	8.	8.	8.	8.	9.	9.	9.
9.	9.	9.	10.	10.	10.	10.	10.	10.	11.
11.	11.	11.	11.	11.	11.	12.	12.	12.	12.
12.	12.	12.	12.	12.	12.	13.	13.	13.	14.
14.	14.	15.	15.	15.	15.	15.	15.	15.	16.
16.	16.	16.	16.	16.	16.	16.	16.	16.	16.
16.	16.	16.	16.	16.	16.	17.	17.	17.	17.
17.	17.	17.	17.	17.	17.	18.	19.	20.	20.
20.	19.	18.	18.	18.	17.	17.	17.	17.	17.
17.	17.	17.	17.	17.	16.	16.	16.	16.	16.
16.	16.	16.	16.	16.	16.	16.	16.	16.	15.
15.	15.	15.	15.	14.	14.	14.	14.	14.	13.
13.	13.	13.	13.	13.	13.	12.	12.	12.	12.
12.	12.	12.	12.	12.	12.	12.	12.	12.	11.
11.	11.	11.	11.	11.	11.	11.	11.	11.	11.
11.	11.	11.	11.	11.	11.	11.	11.	11.	11.
11.	11.	11.	11.	11.	11.	11.	11.	11.	11.
11.	11.	11.	11.	11.	11.	11.	11.		

STAGE

699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.9	699.9
699.9	699.9	699.9	699.9	699.9	700.0	700.0	700.0	700.0	700.1
700.1	700.2	700.3	700.3	700.4	700.4	700.5	700.5	700.6	700.6
700.7	700.7	700.8	700.8	700.9	700.9	701.0	701.0	701.1	701.1
701.2	701.2	701.3	701.3	701.4	701.4	701.4	701.5	701.5	701.6
701.6	701.7	701.7	701.7	701.8	701.8	701.9	701.9	701.9	702.0
702.0	702.1	702.1	702.1	702.2	702.2	702.2	702.2	702.3	702.3
702.3	702.3	702.3	702.4	702.4	702.4	702.5	702.5	702.6	702.7
702.8	702.9	702.9	703.0	703.0	703.0	703.1	703.1	703.1	703.1
703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.2
703.2	703.3	703.3	703.3	703.3	703.3	703.3	703.3	703.4	703.4
703.4	703.4	703.3	703.4	703.4	703.5	703.7	703.9	704.1	704.1
704.1	703.9	703.8	703.7	703.6	703.5	703.5	703.5	703.4	703.4
703.4	703.4	703.4	703.3	703.3	703.3	703.3	703.3	703.3	703.2
703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.2	703.1	703.1
703.0	703.0	702.9	702.9	702.8	702.6	702.8	702.7	702.7	702.6
702.6	702.6	702.5	702.5	702.5	702.5	702.4	702.4	702.4	702.4
702.3	702.3	702.3	702.3	702.3	702.2	702.2	702.2	702.2	702.2
702.2	702.2	702.2	702.1	702.1	702.1	702.1	702.1	702.1	702.1

702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.0	702.0
702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0
702.0	702.0	702.0	702.0	702.0	702.0	702.0	702.0		

PEAK OUTFLOW IS 720. AT TIME 15.83 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	720.	183.	54.	54.	15473.
CMS	20.	5.	2.	2.	439.
INCHES		10.03	11.76	11.76	11.76
MM		254.81	298.69	298.69	298.69
AC-FT		91.	107.	107.	107.
THOUS CU M		112.	131.	131.	131.

MAXIMUM STORAGE = 20.

STATION OUTING, PLAN 1, RATIO 5

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	1.	1.	1.	1.	1.	2.
2.	2.	2.	3.	3.	3.	4.	4.	4.	5.
5.	5.	6.	6.	7.	7.	8.	8.	9.	9.
9.	10.	10.	11.	11.	11.	12.	13.	15.	16.
18.	19.	21.	22.	24.	25.	26.	27.	28.	29.
30.	31.	32.	34.	36.	37.	38.	39.	40.	41.
42.	42.	43.	43.	44.	46.	51.	59.	68.	76.
88.	102.	113.	120.	125.	129.	132.	136.	140.	145.
150.	154.	157.	160.	162.	164.	165.	166.	167.	169.
174.	181.	187.	193.	197.	201.	208.	210.	211.	212.
210.	204.	201.	212.	241.	302.	437.	664.	869.	902.
792.	637.	509.	409.	333.	280.	247.	227.	215.	208.
203.	201.	200.	200.	199.	197.	193.	187.	180.	175.
170.	167.	164.	162.	160.	159.	157.	150.	136.	121.
104.	96.	86.	79.	75.	71.	66.	62.	58.	53.
49.	45.	42.	39.	35.	32.	31.	30.	29.	28.
27.	26.	26.	25.	24.	24.	23.	23.	22.	22.
21.	21.	20.	20.	20.	19.	19.	19.	19.	18.
18.	18.	18.	17.	17.	17.	17.	17.	17.	16.
16.	15.	16.	16.	16.	16.	16.	16.	15.	15.
15.	15.	15.	15.	15.	15.	15.	15.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

1.	1.	1.	1.	1.	1.	1.	1.	1.	2.
2.	2.	2.	3.	3.	3.	3.	4.	4.	4.
4.	5.	5.	5.	5.	6.	6.	6.	6.	7.
7.	7.	7.	8.	8.	8.	8.	8.	9.	9.
9.	9.	10.	10.	10.	10.	11.	11.	11.	11.
11.	11.	12.	12.	12.	12.	12.	12.	12.	13.
13.	13.	13.	13.	13.	13.	13.	13.	13.	13.
13.	13.	13.	13.	13.	13.	14.	14.	14.	15.
15.	15.	16.	16.	16.	16.	16.	16.	16.	16.
16.	16.	16.	16.	17.	17.	17.	17.	17.	17.
17.	17.	17.	17.	17.	17.	17.	17.	17.	17.
17.	17.	17.	17.	17.	18.	19.	20.	21.	21.
21.	20.	19.	18.	18.	18.	18.	17.	17.	17.
17.	17.	17.	17.	17.	17.	17.	17.	17.	17.
17.	17.	17.	17.	16.	16.	16.	16.	16.	16.
15.	15.	15.	15.	15.	15.	14.	14.	14.	14.
14.	13.	13.	13.	13.	13.	13.	13.	13.	12.
12.	12.	12.	12.	12.	12.	12.	12.	12.	12.
12.	12.	12.	12.	12.	11.	11.	11.	11.	11.
11.	11.	11.	11.	11.	11.	11.	11.	11.	11.
11.	11.	11.	11.	11.	11.	11.	11.	11.	11.
11.	11.	11.	11.	11.	11.	11.	11.		

STAGE

699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.9	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.9	699.9	699.9	699.9	699.9
699.9	700.0	700.0	700.0	700.1	700.1	700.2	700.3	700.3	700.4
700.4	700.5	700.6	700.6	700.7	700.8	700.8	700.9	700.9	701.0
701.1	701.1	701.2	701.2	701.3	701.4	701.4	701.5	701.5	701.6
701.6	701.7	701.8	701.8	701.9	701.9	702.0	702.0	702.1	702.1
702.2	702.2	702.2	702.3	702.3	702.3	702.4	702.4	702.4	702.4
702.5	702.5	702.5	702.5	702.5	702.6	702.6	702.6	702.6	702.6
702.6	702.6	702.6	702.6	702.6	702.6	702.7	702.8	702.9	702.9
703.0	703.1	703.1	703.2	703.2	703.2	703.2	703.2	703.2	703.3
703.3	703.3	703.3	703.3	703.3	703.3	703.4	703.4	703.4	703.4
703.4	703.4	703.4	703.5	703.5	703.5	703.5	703.5	703.5	703.5
703.5	703.5	703.5	703.5	703.6	703.6	703.8	704.1	704.3	704.4
704.2	704.1	703.9	703.8	703.7	703.6	703.6	703.5	703.5	703.5
703.5	703.5	703.5	703.5	703.5	703.5	703.5	703.4	703.4	703.4
703.4	703.4	703.3	703.3	703.3	703.3	703.3	703.3	703.2	703.2
703.1	703.1	703.0	703.0	702.9	702.9	702.8	702.8	702.8	702.7
702.7	702.6	702.6	702.6	702.5	702.5	702.5	702.5	702.4	702.4
702.4	702.4	702.4	702.3	702.3	702.3	702.3	702.3	702.3	702.3
702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2
702.2	702.2	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1
702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1
702.1	702.1	702.1	702.1	702.1	702.1	702.1	702.1		

PEAK OUTFLOW IS 902. AT TIME 15.83 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	902.	231.	69.	69.	19736.
CMS	26.	7.	2.	2.	559.
INCHES		12.62	15.00	15.00	15.00
MM		320.47	380.98	380.98	380.98
AC-FT		114.	136.	136.	136.
THOUS CU M		141.	168.	168.	168.

MAXIMUM STORAGE = 21.

STATION OUTING, PLAN 1, RATIO 6

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	1.	1.	1.	1.	2.
2.	3.	3.	4.	4.	5.	6.	7.	8.	9.
9.	10.	11.	12.	14.	18.	22.	25.	29.	33.
40.	46.	52.	56.	60.	64.	67.	69.	71.	73.
75.	77.	78.	79.	80.	81.	82.	84.	85.	86.
86.	87.	87.	88.	88.	88.	88.	88.	89.	89.
89.	89.	89.	89.	90.	90.	90.	90.	90.	90.
90.	90.	90.	91.	92.	101.	121.	147.	175.	199.
243.	262.	269.	273.	275.	276.	278.	285.	296.	309.
319.	326.	330.	333.	334.	335.	336.	336.	339.	348.
365.	384.	399.	409.	415.	418.	420.	422.	423.	423.
420.	408.	403.	423.	481.	605.	897.	1354.	1734.	1802.
1588.	1289.	1009.	799.	650.	552.	491.	453.	429.	415.
407.	402.	400.	399.	396.	387.	370.	351.	336.	326.
321.	317.	315.	314.	314.	313.	306.	276.	228.	196.
174.	17 .	157.	143.	130.	118.	107.	96.	87.	80.
76.	72.	67.	63.	59.	54.	51.	47.	45.	42.
40.	39.	37.	36.	35.	34.	33.	32.	32.	31.
31.	31.	31.	31.	30.	30.	30.	30.	30.	30.
30.	30.	30.	30.	30.	29.	29.	29.	29.	29.
29.	29.	29.	29.	29.	29.	29.	29.	29.	29.
29.	29.	29.	29.	29.	29.	29.	29.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	3.	3.	3.	4.	4.
4.	5.	5.	6.	6.	7.	7.	8.	8.	9.
9.	10.	10.	10.	11.	11.	12.	12.	13.	13.
13.	13.	14.	14.	14.	14.	14.	14.	15.	15.
15.	15.	15.	15.	15.	15.	15.	15.	15.	15.
15.	15.	15.	15.	15.	15.	15.	15.	15.	15.
15.	15.	15.	15.	15.	15.	15.	15.	15.	15.
15.	15.	15.	15.	15.	15.	16.	16.	17.	17.
17.	18.	18.	18.	18.	18.	18.	18.	18.	18.
18.	18.	18.	18.	18.	18.	18.	18.	18.	18.
18.	18.	18.	18.	18.	19.	19.	19.	19.	19.
19.	19.	18.	19.	19.	20.	21.	24.	26.	26.
25.	23.	22.	21.	20.	19.	19.	19.	19.	18.
18.	18.	18.	18.	18.	18.	18.	18.	18.	18.
18.	18.	18.	18.	18.	18.	18.	18.	17.	17.
17.	17.	16.	16.	16.	16.	15.	15.	15.	15.
15.	15.	14.	14.	14.	14.	14.	14.	13.	13.

13.	13.	13.	13.	13.	13.	13.	13.	13.	13.
13.	13.	13.	13.	13.	13.	13.	13.	13.	13.
13.	13.	13.	13.	13.	13.	13.	13.	13.	13.
13.	13.	13.	13.	13.	13.	13.	13.	13.	13.
13.	13.	13.	13.	13.	13.	13.	13.		

STAGE

699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
699.8	699.8	699.8	699.9	699.9	699.9	699.9	699.9	699.9	699.9
699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9	699.9
699.9	700.0	700.0	700.0	700.0	700.0	700.1	700.2	700.3	700.4
700.5	700.6	700.7	700.8	701.0	701.1	701.2	701.3	701.4	701.5
701.6	701.7	701.8	702.0	702.1	702.2	702.3	702.3	702.4	702.5
702.6	702.6	702.7	702.7	702.8	702.8	702.9	702.9	702.9	702.9
702.9	702.9	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0	703.0
703.0	703.0	703.0	703.0	703.0	703.1	703.2	703.3	703.4	703.5
703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6	703.6
703.7	703.7	703.7	703.7	703.7	703.7	703.7	703.7	703.7	703.7
703.7	703.7	703.8	703.8	703.8	703.8	703.8	703.8	703.8	703.8
703.8	703.8	703.8	703.8	703.9	704.0	704.3	704.9	705.3	705.4
705.1	704.8	704.5	704.2	704.1	704.0	703.9	703.8	703.8	703.8
703.8	703.8	703.8	703.8	703.8	703.7	703.7	703.7	703.7	703.7
703.7	703.7	703.6	703.6	703.6	703.6	703.6	703.6	703.5	703.5
703.4	703.4	703.3	703.3	703.2	703.2	703.1	703.1	703.0	703.0
702.9	702.9	702.9	702.8	702.8	702.7	702.7	702.7	702.6	702.6
702.6	702.6	702.6	702.5	702.5	702.5	702.5	702.5	702.5	702.5
702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5
702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5	702.5
702.5	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4		

PEAK OUTFLOW IS 1802. AT TIME 15.83 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1802.	464.	142.	142.	40974.
CMS	51.	13.	4.	4.	1160.
INCHES		25.41	31.14	31.14	31.14
MM		645.33	790.97	790.97	790.97
AC-FT		230.	282.	282.	282.
THOUS CU M		284.	348.	348.	348.

MAXIMUM STORAGE = 26.

********** ********** ********** ********** **********

SUB-AREA RUNOFF COMPUTATION

SUBAREA RUNOFF FOR LAKE MARIAN

ISTAQ	ICOMP	IECON	ITAPE	JPLT	JPRT	INAME	ISTAGE	IAUTO
INFLOW	0	-0	-0	1	3	1	-0	-0

HYDROGRAPH DATA

IHYDG	IUHG	TAREA	SNAP	TRSDA	TRSPC	RATIO	ISNOW	ISAME	LOCAL
1	2	.06	-0.00	.06	1.00	-0.000	-0	1	-0

PRECIP DATA

SPFE	PMS	R6	R12	R24	R48	R72	R96
-0.00	26.00	100.00	120.00	130.00	-0.00	-0.00	-0.00

LOSS DATA

LROPT	STRKR	DLTKR	RTIOL	ERAIN	STRKS	RTIOK	STRTL	CNSTL	ALSMX	RTIMP
-0	-0.00	-0.00	1.00	-0.00	-0.00	1.00	-1.00	-82.00	-0.00	.15

CURVE NO = -82.00 WETNESS = -1.00 EFFECT CN = 82.00

UNIT HYDROGRAPH DATA
TC= -0.00 LAG= .20

RECESSION DATA
STRTQ= .12 QRCSN= -.10 RTIOR= 3.00

UNIT HYDROGRAPH 14 END OF PERIOD ORDINATES. TC= -0.00 HOURS. LAG= .20 VOL= 1.00

28. 93. 116. 92. 51. 30. 17. 10. 5. 3.
2. 1. 1. 0.

0 END-OF-PERIOD FLOW

MO.DA	HR.MN	PERIOD	RAIN	EXCS	LOSS	COMP Q	MO.DA	HR.MN	PERIOD	RAIN	EXCS	LOSS	COMP Q
1.01	.05	1	.01	.00	.01	0.	1.01	12.05	145	.22	.20	.01	34.
1.01	.10	2	.01	.00	.01	0.	1.01	12.10	146	.22	.20	.01	47.
1.01	.15	3	.01	.00	.01	1.	1.01	12.15	147	.22	.20	.01	63.
1.01	.20	4	.01	.00	.01	1.	1.01	12.20	148	.22	.21	.01	75.
1.01	.25	5	.01	.00	.01	1.	1.01	12.25	149	.22	.21	.01	82.
1.01	.30	6	.01	.00	.01	1.	1.01	12.30	150	.22	.21	.01	87.
1.01	.35	7	.01	.00	.01	1.	1.01	12.35	151	.22	.21	.01	89.
1.01	.40	8	.01	.00	.01	1.	1.01	12.40	152	.22	.21	.01	91.
1.01	.45	9	.01	.00	.01	1.	1.01	12.45	153	.22	.21	.01	92.
1.01	.50	10	.01	.00	.01	1.	1.01	12.50	154	.22	.21	.01	92.
1.01	.55	11	.01	.00	.01	1.	1.01	12.55	155	.22	.21	.01	93.
1.01	1.00	12	.01	.00	.01	1.	1.01	13.00	156	.22	.21	.01	93.
1.01	1.05	13	.01	.00	.01	1.	1.01	13.05	157	.26	.25	.01	95.
1.01	1.10	14	.01	.00	.01	1.	1.01	13.10	158	.26	.25	.01	99.
1.01	1.15	15	.01	.00	.01	1.	1.01	13.15	159	.26	.25	.01	104.
1.01	1.20	16	.01	.00	.01	1.	1.01	13.20	160	.26	.25	.01	108.
1.01	1.25	17	.01	.00	.01	1.	1.01	13.25	161	.26	.25	.01	110.
1.01	1.30	18	.01	.00	.01	1.	1.01	13.30	162	.26	.25	.01	111.
1.01	1.35	19	.01	.00	.01	1.	1.01	13.35	163	.26	.25	.01	112.
1.01	1.40	20	.01	.00	.01	1.	1.01	13.40	164	.26	.25	.01	113.
1.01	1.45	21	.01	.00	.01	1.	1.01	13.45	165	.26	.25	.01	113.
1.01	1.50	22	.01	.00	.01	1.	1.01	13.50	166	.26	.25	.01	113.
1.01	1.55	23	.01	.00	.01	1.	1.01	13.55	167	.26	.25	.01	114.
1.01	2.00	24	.01	.00	.01	1.	1.01	14.00	168	.26	.25	.01	114.
1.01	2.05	25	.01	.00	.01	1.	1.01	14.05	169	.32	.32	.01	116.
1.01	2.10	26	.01	.00	.01	1.	1.01	14.10	170	.32	.32	.01	122.
1.01	2.15	27	.01	.00	.01	1.	1.01	14.15	171	.32	.32	.01	129.
1.01	2.20	28	.01	.00	.01	1.	1.01	14.20	172	.32	.32	.01	135.
1.01	2.25	29	.01	.00	.01	1.	1.01	14.25	173	.32	.32	.01	139.
1.01	2.30	30	.01	.00	.01	1.	1.01	14.30	174	.32	.32	.01	141.
1.01	2.35	31	.01	.00	.01	1.	1.01	14.35	175	.32	.32	.01	142.
1.01	2.40	32	.01	.00	.01	1.	1.01	14.40	176	.32	.32	.01	143.
1.01	2.45	33	.01	.00	.01	1.	1.01	14.45	177	.32	.32	.00	143.
1.01	2.50	34	.01	.00	.01	1.	1.01	14.50	178	.32	.32	.00	143.
1.01	2.55	35	.01	.00	.01	1.	1.01	14.55	179	.32	.32	.00	144.
1.01	3.00	36	.01	.00	.01	1.	1.01	15.00	180	.32	.32	.00	144.

1.01	3.05	37	.01	.00	.01	1.	1.01	15.05	181	.20	.20	.00	140.
1.01	3.10	38	.01	.00	.01	1.	1.01	15.10	182	.40	.39	.00	134.
1.01	3.15	39	.01	.00	.01	1.	1.01	15.15	183	.40	.39	.00	138.
1.01	3.20	40	.01	.00	.01	1.	1.01	15.20	184	.59	.59	.01	154.
1.01	3.25	41	.01	.00	.01	1.	1.01	15.25	185	.69	.68	.01	187.
1.01	3.30	42	.01	.00	.01	2.	1.01	15.30	186	1.68	1.66	.02	263.
1.01	3.35	43	.01	.00	.01	2.	1.01	15.35	187	2.77	2.74	.02	402.
1.01	3.40	44	.01	.00	.01	2.	1.01	15.40	188	1.09	1.08	.01	596.
1.01	3.45	45	.01	.00	.01	2.	1.01	15.45	189	.69	.69	.00	657.
1.01	3.50	46	.01	.00	.01	2.	1.01	15.50	190	.59	.59	.00	582.
1.01	3.55	47	.01	.00	.01	2.	1.01	15.55	191	.40	.39	.00	457.
1.01	4.00	48	.01	.00	.01	2.	1.01	16.00	192	.40	.39	.00	356.
1.01	4.05	49	.01	.00	.01	2.	1.01	16.05	193	.30	.30	.00	281.
1.01	4.10	50	.01	.00	.01	2.	1.01	16.10	194	.30	.30	.00	226.
1.01	4.15	51	.01	.00	.01	2.	1.01	16.15	195	.30	.30	.00	190.
1.01	4.20	52	.01	.00	.01	2.	1.01	16.20	196	.30	.30	.00	166.
1.01	4.25	53	.01	.01	.01	2.	1.01	16.25	197	.30	.30	.00	153.
1.01	4.30	54	.01	.01	.01	2.	1.01	16.30	198	.30	.30	.00	146.
1.01	4.35	55	.01	.01	.01	2.	1.01	16.35	199	.30	.30	.00	141.
1.01	4.40	56	.01	.01	.01	2.	1.01	16.40	200	.30	.30	.00	138.
1.01	4.45	57	.01	.01	.01	2.	1.01	16.45	201	.30	.30	.00	137.
1.01	4.50	58	.01	.01	.01	2.	1.01	16.50	202	.30	.30	.00	136.
1.01	4.55	59	.01	.01	.01	2.	1.01	16.55	203	.30	.30	.00	136.
1.01	5.00	60	.01	.01	.01	2.	1.01	17.00	204	.30	.30	.00	136.
1.01	5.05	61	.01	.01	.01	3.	1.01	17.05	205	.24	.24	.00	134.
1.01	5.10	62	.01	.01	.01	3.	1.01	17.10	206	.24	.24	.00	128.
1.01	5.15	63	.01	.01	.01	3.	1.01	17.15	207	.24	.24	.00	120.
1.01	5.20	64	.01	.01	.01	3.	1.01	17.20	208	.24	.24	.00	114.
1.01	5.25	65	.01	.01	.01	3.	1.01	17.25	209	.24	.24	.00	111.
1.01	5.30	66	.01	.01	.01	3.	1.01	17.30	210	.24	.24	.00	109.
1.01	5.35	67	.01	.01	.01	3.	1.01	17.35	211	.24	.24	.00	108.
1.01	5.40	68	.01	.01	.01	3.	1.01	17.40	212	.24	.24	.00	107.
1.01	5.45	69	.01	.01	.01	3.	1.01	17.45	213	.24	.24	.00	107.
1.01	5.50	70	.01	.01	.01	3.	1.01	17.50	214	.24	.24	.00	107.
1.01	5.55	71	.01	.01	.01	3.	1.01	17.55	215	.24	.24	.00	107.
1.01	6.00	72	.01	.01	.01	3.	1.01	18.00	216	.24	.24	.00	107.
1.01	6.05	73	.07	.04	.04	4.	1.01	18.05	217	.02	.02	.00	101.
1.01	6.10	74	.07	.04	.04	7.	1.01	18.10	218	.02	.02	.00	80.
1.01	6.15	75	.07	.04	.03	10.	1.01	18.15	219	.02	.02	.00	63.
1.01	6.20	76	.07	.04	.03	13.	1.01	18.20	220	.02	.02	.00	56.
1.01	6.25	77	.07	.04	.03	15.	1.01	18.25	221	.02	.02	.00	50.
1.01	6.30	78	.07	.04	.03	17.	1.01	18.30	222	.02	.02	.00	45.
1.01	6.35	79	.07	.04	.03	18.	1.01	18.35	223	.02	.02	.00	41.
1.01	6.40	80	.07	.05	.03	19.	1.01	18.40	224	.02	.02	.00	36.
1.01	6.45	81	.07	.05	.03	19.	1.01	18.45	225	.02	.02	.00	33.
1.01	6.50	82	.07	.05	.02	20.	1.01	18.50	226	.02	.02	.00	29.
1.01	6.55	83	.07	.05	.02	21.	1.01	18.55	227	.02	.02	.00	26.
1.01	7.00	84	.07	.05	.02	21.	1.01	19.00	228	.02	.02	.00	23.
1.01	7.05	85	.07	.05	.02	22.	1.01	19.05	229	.02	.02	.00	21.
1.01	7.10	86	.07	.05	.02	22.	1.01	19.10	230	.02	.02	.00	19.
1.01	7.15	87	.07	.05	.02	22.	1.01	19.15	231	.02	.02	.00	17.
1.01	7.20	88	.07	.05	.02	23.	1.01	19.20	232	.02	.02	.00	15.
1.01	7.25	89	.07	.05	.02	23.	1.01	19.25	233	.02	.02	.00	14.
1.01	7.30	90	.07	.05	.02	23.	1.01	19.30	234	.02	.02	.00	12.
1.01	7.35	91	.07	.05	.02	24.	1.01	19.35	235	.02	.02	.00	11.
1.01	7.40	92	.07	.06	.02	24.	1.01	19.40	236	.02	.02	.00	10.
1.01	7.45	93	.07	.06	.02	24.	1.01	19.45	237	.02	.02	.00	10.
1.01	7.50	94	.07	.06	.02	25.	1.01	19.50	238	.02	.02	.00	10.
1.01	7.55	95	.07	.06	.02	25.	1.01	19.55	239	.02	.02	.00	10.
1.01	8.00	96	.07	.06	.01	25.	1.01	20.00	240	.02	.02	.00	10.
1.01	8.05	97	.07	.06	.01	25.	1.01	20.05	241	.02	.02	.00	10.
1.01	8.10	98	.07	.06	.01	26.	1.01	20.10	242	.02	.02	.00	10.
1.01	8.15	99	.07	.06	.01	26.	1.01	20.15	243	.02	.02	.00	10.
1.01	8.20	100	.07	.06	.01	26.	1.01	20.20	244	.02	.02	.00	10.

1.01	8.25	101	.07	.06	.01	26.	1.01	20.25	245	.02	.02	.00	10.
1.01	8.30	102	.07	.06	.01	26.	1.01	20.30	246	.02	.02	.00	10.
1.01	8.35	103	.07	.06	.01	27.	1.01	20.35	247	.02	.02	.00	10.
1.01	8.40	104	.07	.06	.01	27.	1.01	20.40	248	.02	.02	.00	10.
1.01	8.45	105	.07	.06	.01	27.	1.01	20.45	249	.02	.02	.00	10.
1.01	8.50	106	.07	.06	.01	27.	1.01	20.50	250	.02	.02	.00	10.
1.01	8.55	107	.07	.06	.01	27.	1.01	20.55	251	.02	.02	.00	10.
1.01	9.00	108	.07	.06	.01	27.	1.01	21.00	252	.02	.02	.00	10.
1.01	9.05	109	.07	.06	.01	28.	1.01	21.05	253	.02	.02	.00	10.
1.01	9.10	110	.07	.06	.01	28.	1.01	21.10	254	.02	.02	.00	10.
1.01	9.15	111	.07	.06	.01	28.	1.01	21.15	255	.02	.02	.00	10.
1.01	9.20	112	.07	.06	.01	28.	1.01	21.20	256	.02	.02	.00	10.
1.01	9.25	113	.07	.06	.01	28.	1.01	21.25	257	.02	.02	.00	10.
1.01	9.30	114	.07	.06	.01	28.	1.01	21.30	258	.02	.02	.00	10.
1.01	9.35	115	.07	.06	.01	28.	1.01	21.35	259	.02	.02	.00	10.
1.01	9.40	116	.07	.06	.01	29.	1.01	21.40	260	.02	.02	.00	10.
1.01	9.45	117	.07	.06	.01	29.	1.01	21.45	261	.02	.02	.00	10.
1.01	9.50	118	.07	.06	.01	29.	1.01	21.50	262	.02	.02	.00	10.
1.01	9.55	119	.07	.06	.01	29.	1.01	21.55	263	.02	.02	.00	10.
1.01	10.00	120	.07	.06	.01	29.	1.01	22.00	264	.02	.02	.00	10.
1.01	10.05	121	.07	.06	.01	29.	1.01	22.05	265	.02	.02	.00	10.
1.01	10.10	122	.07	.06	.01	29.	1.01	22.10	266	.02	.02	.00	10.
1.01	10.15	123	.07	.07	.01	29.	1.01	22.15	267	.02	.02	.00	10.
1.01	10.20	124	.07	.07	.01	29.	1.01	22.20	268	.02	.02	.00	10.
1.01	10.25	125	.07	.07	.01	29.	1.01	22.25	269	.02	.02	.00	10.
1.01	10.30	126	.07	.07	.01	29.	1.01	22.30	270	.02	.02	.00	10.
1.01	10.35	127	.07	.07	.01	29.	1.01	22.35	271	.02	.02	.00	10.
1.01	10.40	128	.07	.07	.01	29.	1.01	22.40	272	.02	.02	.00	10.
1.01	10.45	129	.07	.07	.01	29.	1.01	22.45	273	.02	.02	.00	10.
1.01	10.50	130	.07	.07	.01	30.	1.01	22.50	274	.02	.02	.00	10.
1.01	10.55	131	.07	.07	.01	30.	1.01	22.55	275	.02	.02	.00	10.
1.01	11.00	132	.07	.07	.01	30.	1.01	23.00	276	.02	.02	.00	10.
1.01	11.05	133	.07	.07	.01	30.	1.01	23.05	277	.02	.02	.00	10.
1.01	11.10	134	.07	.07	.01	30.	1.01	23.10	278	.02	.02	.00	10.
1.01	11.15	135	.07	.07	.01	30.	1.01	23.15	279	.02	.02	.00	10.
1.01	11.20	136	.07	.07	.01	30.	1.01	23.20	280	.02	.02	.00	10.
1.01	11.25	137	.07	.07	.01	30.	1.01	23.25	281	.02	.02	.00	10.
1.01	11.30	138	.07	.07	.01	30.	1.01	23.30	282	.02	.02	.00	10.
1.01	11.35	139	.07	.07	.01	30.	1.01	23.35	283	.02	.02	.00	10.
1.01	11.40	140	.07	.07	.01	30.	1.01	23.40	284	.02	.02	.00	10.
1.01	11.45	141	.07	.07	.00	30.	1.01	23.45	285	.02	.02	.00	10.
1.01	11.50	142	.07	.07	.00	30.	1.01	23.50	286	.02	.02	.00	10.
1.01	11.55	143	.07	.07	.00	30.	1.01	23.55	287	.02	.02	.00	10.
1.01	12.00	144	.07	.07	.00	30.	1.02	0.00	288	.02	.02	.00	10.
									SUM	33.80	31.68	2.12	14460.
										(859.)	(805.)	(54.)	(409.46)

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	657.	158.	50.	50.	14431.
CMS	19.	4.	1.	1.	409.
INCHES		25.36	32.15	32.15	32.15
MM		644.25	816.50	816.50	816.50
AC-FT		78.	99.	99.	99.
THOUS CU M		97.	123.	123.	123.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 1

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	64.	16.	5.	5.	1443.
CMS	2.	0.	0.	0.	41.
INCHES		2.54	3.21	3.21	3.21
MM		64.42	81.65	81.65	81.65

AC-FT		8.	10.	10.	10.
THOUS CU M		10.	12.	12.	12.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 2

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	131.	32.	10.	10.	2886.
CMS	4.	1.	0.	0.	82.
INCHES		5.07	6.43	6.43	6.43
MM		128.85	163.30	163.30	163.30
AC-FT		16.	20.	20.	20.
THOUS CU M		19.	25.	25.	25.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 3

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	197.	47.	15.	15.	4329.
CMS	6.	1.	0.	0.	123.
INCHES		7.61	9.64	9.64	9.64
MM		193.27	244.95	244.95	244.95
AC-FT		24.	30.	30.	30.
THOUS CU M		29.	37.	37.	37.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 4

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	263.	63.	20.	20.	5772.
CMS	7.	2.	1.	1.	163.
INCHES		10.15	12.86	12.86	12.86
MM		257.70	326.60	326.60	326.60
AC-FT		31.	40.	40.	40.
THOUS CU M		39.	49.	49.	49.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 5

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	328.	79.	25.	25.	7215.
CMS	9.	2.	1.	1.	204.
INCHES		12.68	16.07	16.07	16.07
MM		322.12	408.25	408.25	408.25
AC-FT		39.	50.	50.	50.
THOUS CU M		49.	61.	61.	61.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 6

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	657.	158.	50.	50.	14431.
CMS	19.	4.	1.	1.	409.
INCHES		25.36	32.15	32.15	32.15
MM		644.25	816.50	816.50	816.50
AC-FT		78.	99.	99.	99.
THOUS CU M		97.	123.	123.	123.

CMS	34.	9.	3.	3.	763.
INCHES		12.61	15.27	15.27	15.27
MM		320.24	387.92	387.92	387.92
AC-FT		153.	186.	186.	186.
THOUS CU M		189.	229.	229.	229.

SUM OF 2 HYDROGRAPHS AT PLAN 1 RTIO 6

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	2391.	622.	192.	192.	55405.
CMS	68.	18.	5.	5.	1569.
INCHES		25.38	31.40	31.40	31.40
MM		644.55	797.46	797.46	797.46
AC-FT		306.	382.	382.	382.
THOUS CU M		380.	471.	471.	471.

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HYDROGRAPH ROUTING

RESERVOIR ROUTING FOR LAKE MARIAN

ISTAO	ICOMP	IECON	ITAPE	JPLT	JPRT	INAME	ISTAGE	IAUTO
OUTING	1	-0	-0	1	3	1	-0	-0

ROUTING DATA

QLOSS	CLOSS	AVG	IRES	ISAME	IOPT	IPMP	LSTR
-0.0	-0.000	-0.00	1	1	-0	-0	-0

NSTPS	NSTDL	LAG	AMSKK	X	TSK	STORA	ISPRAT
1	-0	-0	-0.000	-0.000	-0.000	-671.	-1

STAGE	671.0	671.5	672.0	672.5	673.0	673.5	674.0	674.5	675.0	675.5
	676.0	676.5	677.0	677.5	678.0	678.5	679.0			
FLOW	0.	2.	7.	16.	27.	40.	62.	75.	97.	474.
	656.	1703.	2550.	3702.	4861.	5934.	7053.			
CAPACITY=	0.	4.	8.	13.	17.	21.	26.	31.	35.	40.
	45.	50.	55.	60.	65.	70.	76.			
ELEVATION=	671.	671.	672.	672.	673.	673.	674.	674.	675.	675.
	676.	676.	677.	677.	678.	678.	679.			

CREL	SPWID	COOW	EXPW	ELEVL	COOL	CAREA	EXPL
671.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0

DAM DATA

TOPEL	COOD	EXPD	DAMWID
674.8	-0.0	-0.0	-0.

STATION OUTING, PLAN 1, RATIO 1

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

COMBINE HYDROGRAPHS

LAKE ELEANOR AND LAKE MARIAN HYDROGRAPHS COMBINED

ISTAQ	ICOMP	IECON	ITAPE	JPLT	JPRT	INAME	ISTAGE	IAUTO
	2	-0	-0	1	3	1	-0	-0

SUM OF 2 HYDROGRAPHS AT PLAN 1 RTIO 1

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	135.	48.	16.	16.	4470.
CMS	4.	1.	0.	0.	127.
INCHES		1.95	2.53	2.53	2.53
MM		49.42	64.34	64.34	64.34
AC-FT		24.	31.	31.	31.
THOUS CU M		29.	38.	38.	38.

SUM OF 2 HYDROGRAPHS AT PLAN 1 RTIO 2

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	461.	115.	35.	35.	10022.
CMS	13.	3.	1.	1.	284.
INCHES		4.68	5.68	5.68	5.68
MM		118.90	144.25	144.25	144.25
AC-FT		57.	69.	69.	69.
THOUS CU M		70.	85.	85.	85.

SUM OF 2 HYDROGRAPHS AT PLAN 1 RTIO 3

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	710.	181.	54.	54.	15612.
CMS	20.	5.	2.	2.	442.
INCHES		7.39	8.85	8.85	8.85
MM		187.83	224.70	224.70	224.70
AC-FT		90.	108.	108.	108.
THOUS CU M		111.	133.	133.	133.

SUM OF 2 HYDROGRAPHS AT PLAN 1 RTIO 4

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	953.	246.	74.	74.	21245.
CMS	27.	7.	2.	2.	602.
INCHES		10.03	12.04	12.04	12.04
MM		254.74	305.79	305.79	305.79
AC-FT		122.	146.	146.	146.
THOUS CU M		150.	180.	180.	180.

SUM OF 2 HYDROGRAPHS AT PLAN 1 RTIO 5

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1197.	309.	94.	94.	26951.

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	2.	2.	2.	2.
2.	2.	2.	2.	2.	2.	3.	3.	3.	3.
3.	3.	4.	4.	4.	4.	5.	5.	6.	7.
9.	11.	13.	14.	15.	17.	18.	19.	20.	21.
22.	23.	23.	24.	25.	25.	26.	27.	27.	28.
28.	29.	29.	29.	30.	30.	30.	31.	31.	31.
31.	31.	31.	31.	31.	31.	31.	31.	31.	31.
30.	30.	30.	30.	30.	29.	29.	29.	28.	28.
28.	28.	27.	27.	27.	26.	26.	26.	26.	26.
25.	25.	25.	25.	24.	24.	24.	24.	24.	23.
23.	23.	23.	23.	22.	22.	22.	22.	22.	21.
21.	21.	21.	21.	20.	20.	20.	20.	20.	20.
19.	19.	19.	19.	19.	19.	18.	19.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	2.	2.	2.	2.	3.
3.	3.	3.	3.	3.	3.	3.	3.	3.	4.
4.	4.	4.	4.	4.	4.	5.	5.	5.	5.
5.	5.	5.	6.	6.	6.	6.	7.	8.	8.
9.	10.	11.	12.	12.	13.	13.	14.	14.	15.
15.	15.	16.	16.	16.	16.	17.	17.	17.	17.
17.	18.	18.	18.	18.	18.	18.	18.	18.	18.
18.	18.	18.	18.	18.	18.	18.	18.	18.	18.
18.	19.	18.	18.	18.	18.	18.	18.	18.	18.
17.	17.	17.	17.	17.	17.	17.	17.	17.	17.
16.	16.	16.	16.	16.	16.	16.	16.	16.	16.
16.	15.	15.	15.	15.	15.	15.	15.	15.	15.
15.	15.	15.	15.	14.	14.	14.	14.	14.	14.
14.	14.	14.	14.	14.	14.	14.	14.		

STAGE

671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
671.1	671.1	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2
671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2
671.2	671.2	671.2	671.3	671.3	671.3	671.3	671.3	671.3	671.3
671.3	671.3	671.3	671.4	671.4	671.4	671.4	671.4	671.4	671.4
671.5	671.5	671.5	671.5	671.5	671.5	671.6	671.6	671.6	671.6
671.6	671.7	671.7	671.7	671.7	671.7	671.8	671.8	671.9	672.0
672.1	672.2	672.3	672.4	672.5	672.5	672.6	672.6	672.7	672.7
672.8	672.9	672.9	672.9	672.9	672.9	673.0	673.0	673.0	673.0
673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.2	673.2	673.2
673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.1
673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1	673.1
673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0	673.0
672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9	672.9
672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8
672.8	672.7	672.7	672.7	672.7	672.7	672.7	672.7	672.7	672.7
672.7	672.7	672.7	672.6	672.6	672.6	672.6	672.6		

PEAK OUTFLOW IS 31. AT TIME 16.67 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	31.	27.	9.	9.	2513.
CMS	1.	1.	0.	0.	71.
INCHES		1.09	1.42	1.42	1.42
[illegible]		27.67	36.18	36.18	36.18
AC-FT		13.	17.	17.	17.
THOUS CU M		16.	21.	21.	21.

MAXIMUM STORAGE = 18.

STATION OUTING, PLAN 1, RATIO 2

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	3.	3.	3.	3.	3.	4.	4.
4.	5.	5.	5.	6.	6.	7.	7.	8.	9.
10.	11.	12.	13.	14.	15.	16.	18.	19.	21.

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22.	24.	25.	26.	28.	30.	33.	38.	47.	60.
68.	73.	80.	85.	89.	93.	95.	97.	114.	122.
123.	121.	119.	116.	114.	112.	109.	106.	104.	101.
99.	97.	97.	97.	97.	97.	96.	96.	95.	95.
94.	93.	92.	90.	89.	88.	86.	84.	83.	81.
[illegible]	78.	77.	75.	74.	73.	72.	71.	70.	69.
69.	68.	67.	66.	65.	64.	63.	62.	61.	59.
58.	56.	55.	54.	52.	51.	50.	49.	48.	46.
45.	44.	43.	42.	41.	40.	40.	39.	38.	38.
37.	37.	36.	36.	36.	35.	35.	34.	34.	33.
33.	32.	32.	32.	31.	31.	30.	30.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	3.	3.	3.	3.	3.	3.	3.	3.
3.	3.	3.	3.	3.	3.	3.	4.	4.	4.
4.	4.	4.	5.	5.	5.	5.	5.	6.	6.
6.	6.	7.	7.	7.	8.	8.	8.	9.	9.
10.	10.	11.	11.	12.	12.	13.	13.	14.	15.
[illegible]	16.	16.	17.	17.	18.	19.	21.	23.	26.
28.	30.	32.	33.	34.	34.	35.	35.	36.	36.
35.	36.	36.	36.	36.	36.	35.	35.	35.	35.
35.	35.	35.	35.	35.	35.	35.	35.	35.	35.
35.	34.	34.	34.	34.	33.	33.	33.	32.	32.
32.	31.	31.	31.	30.	30.	30.	29.	29.	29.
24.	28.	28.	27.	27.	27.	26.	26.	26.	25.
25.	25.	25.	24.	24.	24.	24.	23.	23.	23.
23.	22.	22.	22.	22.	22.	21.	21.	21.	21.
21.	21.	20.	20.	20.	20.	20.	20.	19.	19.
19.	19.	18.	19.	19.	18.	18.	18.		

STAGE

671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
671.1	671.1	671.1	671.1	671.1	671.2	671.2	671.2	671.2	671.2
671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2
671.2	671.2	671.2	671.3	671.3	671.3	671.3	671.3	671.3	671.3
671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.4	671.4	671.4
671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.5	671.5
671.5	671.5	671.5	671.6	671.6	671.6	671.6	671.7	671.7	671.7
671.7	671.8	671.8	671.8	671.9	671.9	672.0	672.0	672.1	672.1
672.2	672.2	672.3	672.3	672.4	672.5	672.5	672.6	672.7	672.7
672.8	672.9	672.9	673.0	673.1	673.1	673.2	673.4	673.7	673.9

674.2	674.4	674.6	674.7	674.8	674.9	675.0	675.0	675.0	675.0
675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0
675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	675.0	674.9
674.9	674.9	674.9	674.8	674.8	674.8	674.8	674.7	674.7	674.6
674.6	674.6	674.5	674.5	674.5	674.4	674.4	674.4	674.3	674.3
674.3	674.2	674.2	674.2	674.1	674.1	674.0	674.0	674.0	673.9
673.9	673.9	673.8	673.8	673.8	673.8	673.7	673.7	673.7	673.6
673.6	673.6	673.6	673.6	673.5	673.5	673.5	673.5	673.5	673.4
673.4	673.4	673.4	673.4	673.3	673.3	673.3	673.3	673.3	673.3
673.2	673.2	673.2	673.2	673.2	673.2	673.1	673.1		

PEAK OUTFLOW IS 123. AT TIME 16.75 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	123.	82.	26.	26.	7430.
CMS	3.	2.	1.	1.	210.
INCHES		3.34	4.21	4.21	4.21
MM		84.84	106.94	106.94	106.94
AC-FT		41.	51.	51.	51.
THOUS CU M		50.	63.	63.	63.

MAXIMUM STORAGE = 36.

STATION OUTING, PLAN 1, RATIO 3

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	2.	3.	3.	3.	3.
3.	3.	3.	3.	4.	4.	4.	4.	5.	5.
5.	6.	6.	6.	7.	8.	9.	10.	11.	12.
13.	15.	16.	18.	19.	21.	23.	25.	27.	29.
31.	33.	36.	38.	41.	45.	49.	53.	57.	60.
63.	65.	67.	69.	71.	73.	79.	90.	235.	436.
533.	542.	501.	438.	373.	319.	281.	251.	228.	211.
198.	198.	180.	175.	170.	167.	162.	157.	152.	147.
143.	139.	136.	133.	131.	130.	128.	124.	117.	109.
101.	97.	97.	96.	95.	94.	93.	92.	90.	89.
87.	85.	84.	82.	81.	79.	77.	76.	74.	74.
73.	72.	71.	70.	69.	68.	67.	66.	66.	65.
64.	63.	62.	61.	59.	56.	57.	55.	54.	53.
52.	50.	49.	48.	47.	46.	45.	44.	43.	42.
41.	40.	39.	39.	38.	38.	38.	37.	37.	36.
36.	35.	35.	34.	34.	34.	33.	33.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	3.	3.	3.	3.	3.
3.	3.	3.	3.	3.	3.	4.	4.	4.	4.
4.	4.	4.	4.	4.	4.	5.	5.	5.	5.
5.	5.	5.	5.	5.	6.	6.	6.	6.	6.
7.	7.	7.	8.	8.	9.	9.	10.	10.	11.
11.	12.	13.	13.	14.	15.	16.	16.	17.	18.
18.	19.	20.	21.	22.	23.	23.	24.	25.	26.
26.	27.	28.	28.	29.	30.	31.	34.	37.	40.
41.	41.	40.	40.	39.	38.	38.	37.	37.	37.
37.	36.	36.	36.	36.	36.	36.	36.	36.	36.
36.	36.	36.	36.	36.	36.	36.	36.	36.	35.
35.	35.	35.	35.	35.	35.	34.	34.	34.	34.
33.	33.	33.	32.	32.	32.	31.	31.	31.	30.
30.	30.	29.	29.	29.	28.	28.	28.	27.	27.
27.	26.	26.	26.	25.	25.	25.	25.	24.	24.
24.	24.	23.	23.	23.	23.	22.	22.	22.	22.
22.	22.	21.	21.	21.	21.	21.	21.	20.	20.
20.	20.	20.	20.	20.	19.	19.	19.		

STAGE

671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.1	671.1	671.1	671.1
671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
671.1	671.1	671.1	671.1	671.2	671.2	671.2	671.2	671.2	671.2
671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.3	671.3
671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.4
671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.5	671.5
671.5	671.5	671.5	671.5	671.5	671.6	671.6	671.6	671.6	671.6
671.6	671.6	671.6	671.7	671.7	671.7	671.7	671.7	671.8	671.8
671.8	671.9	671.9	671.9	672.0	672.0	672.1	672.2	672.2	672.3
672.4	672.4	672.5	672.6	672.7	672.8	672.8	672.9	673.0	673.1
673.2	673.3	673.3	673.4	673.5	673.6	673.7	673.8	673.9	674.0
674.0	674.1	674.2	674.3	674.3	674.4	674.6	674.8	675.2	675.4
675.6	675.6	675.5	675.5	675.4	675.3	675.2	675.2	675.2	675.2
675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1
675.1	675.1	675.1	675.0	675.0	675.0	675.0	675.0	675.0	675.0
675.0	675.0	675.0	675.0	674.9	674.9	674.9	674.9	674.8	674.8
674.8	674.7	674.7	674.7	674.6	674.6	674.6	674.5	674.5	674.5
674.4	674.4	674.3	674.3	674.3	674.2	674.2	674.2	674.1	674.1
674.1	674.0	674.0	674.0	673.9	673.9	673.9	673.8	673.8	673.8
673.8	673.7	673.7	673.7	673.7	673.6	673.6	673.6	673.6	673.5
673.5	673.5	673.5	673.5	673.5	673.4	673.4	673.4	673.4	673.4
673.3	673.3	673.3	673.3	673.3	673.3	673.3	673.2		

PEAK OUTFLOW IS 542. AT TIME 16.00 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	542.	145.	45.	45.	12878.
CMS	15.	4.	1.	1.	365.
INCHES		5.93	7.30	7.30	7.30
MM		150.64	185.36	185.36	185.36
AC-FT		72.	89.	89.	89.
THOUS CU M		89.	109.	109.	109.

MAXIMUM STORAGE = 41.

STATION OUTING, PLAN 1, RATIO 4

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	3.	3.	3.	3.	3.	3.	4.
4.	4.	4.	4.	5.	5.	5.	5.	5.	6.
6.	6.	6.	7.	7.	7.	8.	9.	10.	11.
12.	13.	14.	16.	17.	19.	21.	23.	25.	27.
30.	33.	35.	38.	42.	46.	50.	55.	59.	62.
65.	67.	70.	72.	75.	80.	84.	89.	93.	98.
151.	181.	197.	209.	222.	246.	314.	450.	623.	764.
815.	782.	700.	603.	508.	427.	362.	317.	287.	266.
251.	240.	233.	227.	223.	219.	214.	208.	202.	195.
190.	185.	181.	178.	175.	173.	171.	166.	156.	144.
131.	[illegible]	108.	100.	97.	96.	95.	95.	93.	92.
91.	90.	88.	86.	85.	83.	82.	80.	78.	77.
75.	74.	73.	72.	72.	71.	70.	69.	68.	67.
67.	66.	65.	64.	63.	62.	61.	60.	59.	57.
56.	55.	54.	53.	52.	50.	49.	48.	47.	46.
45.	44.	44.	43.	42.	41.	40.	40.	39.	39.
38.	38.	37.	37.	36.	36.	36.	35.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	3.	3.	3.	3.	3.
3.	3.	3.	3.	3.	4.	4.	4.	4.	4.
4.	4.	4.	5.	5.	5.	5.	5.	5.	5.

6.	6.	6.	6.	6.	6.	7.	7.	7.	7.
7.	8.	8.	8.	8.	8.	9.	9.	10.	10.
11.	11.	12.	12.	13.	14.	15.	16.	16.	17.
18.	19.	20.	21.	22.	23.	24.	24.	25.	26.
27.	28.	29.	30.	31.	32.	33.	34.	34.	35.
36.	36.	37.	37.	37.	37.	38.	40.	42.	44.
44.	44.	43.	42.	41.	40.	39.	38.	38.	37.
37.	37.	37.	37.	37.	37.	37.	37.	37.	37.
37.	35.	36.	36.	36.	36.	36.	36.	36.	36.
36.	36.	35.	35.	35.	35.	35.	35.	35.	34.
34.	34.	33.	33.	33.	32.	32.	32.	31.	31.
31.	30.	30.	30.	30.	29.	29.	29.	28.	28.
28.	27.	27.	27.	26.	26.	26.	26.	25.	25.
25.	25.	24.	24.	24.	24.	23.	23.	23.	23.
23.	22.	22.	22.	22.	22.	22.	21.	21.	21.
21.	21.	21.	20.	20.	20.	20.	20.		

STAGE

671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.2
671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2	671.2
671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.4
671.4	671.4	671.4	671.4	671.4	671.4	671.5	671.5	671.5	671.5
671.5	671.5	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.7
671.7	671.7	671.7	671.7	671.8	671.8	671.8	671.8	671.8	671.9
671.9	671.9	671.9	672.0	672.0	672.0	672.1	672.1	672.1	672.2
672.3	672.3	672.4	672.5	672.6	672.7	672.7	672.8	672.9	673.0
673.1	673.2	673.3	673.4	673.5	673.6	673.7	673.8	673.9	674.0
674.1	674.2	674.3	674.4	674.5	674.6	674.7	674.8	674.9	675.0
675.1	675.1	675.1	675.1	675.2	675.2	675.3	675.5	675.7	675.9
675.9	675.9	675.8	675.7	675.5	675.4	675.4	675.3	675.3	675.2
675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.1	675.1	675.1
675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1
675.0	675.0	675.0	675.0	675.0	675.0	675.0	674.9	674.9	674.9
674.9	674.8	674.8	674.8	674.7	674.7	674.7	674.6	674.6	674.5
674.5	674.5	674.4	674.4	674.4	674.3	674.3	674.3	674.2	674.2
674.2	674.1	674.1	674.1	674.1	674.0	674.0	674.0	673.9	673.9
673.9	673.8	673.9	673.9	673.8	673.7	673.7	673.7	673.7	673.6
673.6	673.6	673.6	673.6	673.5	673.5	673.5	673.5	673.5	673.5
673.4	673.4	673.4	673.4	673.4	673.4	673.3	673.3		

PEAK OUTFLOW IS 815. AT TIME 15.92 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	815.	211.	64.	64.	18393.
CMS	23.	6.	2.	2.	521.
INCHES		8.60	10.42	10.42	10.42
MM		218.45	264.74	264.74	264.74
AC-FT		105.	127.	127.	127.
THOUS CU M		129.	156.	156.	156.

MAXIMUM STORAGE = 44.

STATION OUTING, PLAN 1, RATIO 5

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	2.	2.	2.	2.	2.
2.	2.	2.	2.	3.	3.	3.	3.	3.	4.
4.	4.	4.	5.	5.	5.	5.	6.	6.	6.
7.	7.	7.	8.	9.	9.	10.	10.	11.	12.
12.	13.	13.	14.	15.	15.	16.	19.	19.	21.
22.	24.	27.	29.	32.	35.	38.	41.	46.	51.
56.	61.	64.	67.	70.	73.	76.	81.	85.	90.
95.	124.	181.	215.	236.	251.	262.	270.	275.	279.
286.	278.	275.	277.	292.	330.	417.	581.	794.	1046.
1091.	962.	819.	719.	615.	522.	446.	388.	347.	319.
300.	288.	279.	275.	271.	268.	263.	257.	250.	242.
235.	230.	225.	222.	219.	216.	214.	207.	195.	179.
163.	147.	133.	119.	109.	100.	97.	96.	96.	95.
94.	92.	91.	90.	88.	86.	85.	83.	82.	80.
79.	77.	76.	74.	74.	73.	72.	71.	70.	69.
69.	68.	67.	66.	66.	65.	64.	63.	62.	62.
60.	59.	58.	57.	56.	54.	53.	52.	51.	50.
49.	49.	47.	47.	46.	45.	44.	43.	43.	42.
41.	40.	40.	39.	39.	39.	38.	38.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	2.
2.	2.	2.	2.	2.	2.	2.	2.	2.	3.
3.	3.	3.	3.	3.	3.	3.	4.	4.	4.
4.	4.	4.	4.	5.	5.	5.	5.	5.	5.
6.	6.	6.	6.	6.	7.	7.	7.	7.	8.
9.	8.	8.	9.	9.	9.	10.	10.	10.	11.
11.	11.	11.	12.	12.	12.	13.	13.	14.	15.
15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
25.	26.	27.	28.	29.	30.	31.	32.	33.	34.
35.	36.	36.	37.	37.	37.	37.	38.	38.	38.
38.	38.	38.	38.	38.	38.	39.	41.	44.	46.
46.	46.	44.	43.	42.	41.	40.	39.	39.	39.
38.	38.	38.	38.	38.	37.	37.	37.	37.	37.
37.	37.	37.	37.	37.	37.	37.	37.	37.	36.
36.	36.	36.	36.	35.	35.	35.	35.	35.	35.
35.	34.	34.	34.	33.	33.	33.	32.	32.	32.
31.	31.	31.	31.	30.	30.	30.	29.	29.	29.
28.	28.	28.	28.	27.	27.	27.	26.	26.	26.

26.	25.	25.	25.	25.	24.	24.	24.	24.	24.
23.	23.	23.	23.	23.	23.	22.	22.	22.	22.
22.	22.	21.	21.	21.	21.	21.	21.		

STAGE

671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
671.1	671.1	671.1	671.1	671.1	671.2	671.2	671.2	671.2	671.2
671.2	671.2	671.2	671.2	671.3	671.3	671.3	671.3	671.3	671.3
671.3	671.3	671.4	671.4	671.4	671.4	671.4	671.4	671.5	671.5
671.5	671.5	671.5	671.5	671.6	671.6	671.6	671.6	671.6	671.7
671.7	671.7	671.7	671.8	671.8	671.8	671.8	671.9	671.9	671.9
672.0	672.0	672.0	672.1	672.1	672.1	672.2	672.2	672.2	672.3
672.3	672.3	672.4	672.4	672.4	672.5	672.5	672.6	672.7	672.7
672.8	672.9	673.0	673.1	673.2	673.3	673.4	673.5	673.6	673.8
673.9	674.0	674.1	674.2	674.3	674.4	674.5	674.6	674.7	674.8
674.9	675.0	675.1	675.2	675.2	675.2	675.2	675.2	675.2	675.2
675.2	675.2	675.2	675.2	675.3	675.3	675.4	675.6	675.9	676.1
676.1	676.1	676.0	675.8	675.7	675.6	675.5	675.4	675.3	675.3
675.3	675.3	675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.2
675.2	675.2	675.2	675.2	675.2	675.2	675.2	675.1	675.1	675.1
675.1	675.1	675.0	675.0	675.0	675.0	675.0	675.0	675.0	674.9
674.9	674.9	674.9	674.8	674.8	674.8	674.7	674.7	674.7	674.6
674.6	674.6	674.5	674.5	674.5	674.4	674.4	674.4	674.3	674.3
674.3	674.2	674.2	674.2	674.1	674.1	674.1	674.0	674.0	674.0
674.0	673.9	673.9	673.9	673.9	673.8	673.8	673.8	673.8	673.7
673.7	673.7	673.7	673.7	673.6	673.6	673.6	673.6	673.6	673.5
673.5	673.5	673.5	673.5	673.5	673.5	673.4	673.4		

PEAK OUTFLOW IS 1091. AT TIME 15.92 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1091.	278.	83.	83.	23972.
CMS	31.	8.	2.	2.	679.
INCHES		11.35	13.58	13.58	13.58
MM		288.24	345.03	345.03	345.03
AC-FT		138.	165.	165.	165.
THOUS CU M		170.	204.	204.	204.

MAXIMUM STORAGE = 46.

STATION OUTING, PLAN 1, RATIO 6

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	1.	1.	1.	1.	1.

1.	1.	1.	1.	1.	1.	1.	1.	1.	2.
2.	2.	2.	2.	2.	3.	3.	3.	4.	4.
5.	5.	6.	6.	7.	8.	9.	11.	12.	13.
14.	15.	17.	18.	20.	21.	23.	24.	26.	28.
29.	31.	33.	34.	36.	38.	39.	42.	44.	47.
49.	51.	54.	56.	58.	60.	62.	63.	64.	65.
66.	67.	68.	69.	70.	71.	73.	76.	82.	88.
95.	172.	251.	298.	327.	345.	356.	365.	376.	390.
404.	415.	426.	434.	439.	443.	445.	447.	449.	455.
466.	491.	502.	519.	534.	544.	552.	557.	561.	563.
563.	558.	551.	554.	583.	660.	839.	1412.	1973.	2278.
2232.	1944.	1589.	1269.	1019.	848.	777.	711.	657.	616.
587.	564.	545.	547.	541.	533.	520.	503.	483.	466.
452.	441.	434.	429.	425.	423.	419.	403.	370.	328.
292.	264.	239.	218.	198.	180.	163.	147.	133.	120.
110.	101.	97.	96.	96.	95.	94.	93.	92.	90.
88.	87.	87.	85.	84.	83.	81.	80.	79.	78.
77.	75.	74.	74.	73.	73.	72.	71.	71.	70.
70.	69.	69.	68.	68.	67.	66.	66.	65.	65.
64.	64.	64.	63.	63.	62.	62.	61.	60.	59.
59.	58.	57.	57.	56.	56.	55.	54.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	2.
2.	2.	2.	2.	2.	2.	3.	3.	3.	3.
3.	4.	4.	4.	4.	5.	5.	5.	6.	6.
6.	7.	7.	8.	8.	9.	9.	10.	11.	11.
12.	12.	13.	14.	14.	15.	16.	16.	17.	17.
18.	18.	19.	20.	20.	21.	21.	22.	22.	23.
23.	24.	24.	25.	25.	26.	26.	26.	27.	27.
28.	28.	28.	29.	29.	29.	30.	31.	32.	33.
35.	35.	37.	38.	38.	38.	39.	39.	39.	39.
39.	39.	40.	40.	40.	40.	40.	40.	40.	40.
40.	40.	40.	41.	41.	41.	41.	41.	41.	41.
41.	41.	41.	41.	42.	42.	45.	48.	52.	53.
53.	51.	49.	47.	46.	45.	44.	43.	42.	42.
42.	41.	41.	41.	41.	41.	41.	40.	40.	40.
40.	40.	40.	40.	39.	39.	39.	39.	39.	38.
38.	37.	37.	37.	37.	36.	36.	36.	36.	36.
35.	35.	35.	35.	35.	35.	35.	34.	34.	34.
34.	33.	33.	33.	33.	32.	32.	32.	32.	31.
31.	31.	31.	30.	30.	30.	30.	29.	29.	29.
29.	29.	28.	28.	28.	28.	28.	27.	27.	27.
27.	27.	27.	26.	26.	26.	26.	26.	26.	25.
25.	25.	25.	25.	25.	25.	25.	24.		

STAGE

671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0	671.0
671.0	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.2	671.2	671.2
671.2	671.2	671.2	671.3	671.3	671.3	671.3	671.4	671.4	671.4
671.4	671.5	671.5	671.5	671.5	671.6	671.6	671.6	671.7	671.7

671.8	671.8	671.9	671.9	672.0	672.1	672.1	672.2	672.3	672.3
672.4	672.5	672.6	672.6	672.7	672.8	672.8	672.9	673.0	673.0
673.1	673.2	673.2	673.3	673.4	673.4	673.5	673.5	673.6	673.7
673.7	673.8	673.8	673.9	673.9	674.0	674.0	674.0	674.1	674.1
674.2	674.2	674.2	674.3	674.3	674.4	674.4	674.5	674.7	674.8
674.9	675.1	675.2	675.3	675.3	675.3	675.3	675.4	675.4	675.4
675.4	675.4	675.4	675.4	675.5	675.5	675.5	675.5	675.5	675.5
675.5	675.5	675.5	675.6	675.6	675.6	675.6	675.6	675.6	675.6
675.6	675.6	675.6	675.6	675.6	675.7	676.0	676.3	676.7	676.8
676.8	676.6	676.4	676.2	676.1	676.0	675.9	675.8	675.7	675.7
675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.6	675.5	675.5
675.5	675.5	675.4	675.4	675.4	675.4	675.4	675.4	675.4	675.3
675.3	675.2	675.2	675.2	675.1	675.1	675.1	675.1	675.0	675.0
675.0	675.0	675.0	675.0	675.0	674.9	674.9	674.9	674.9	674.8
674.8	674.8	674.8	674.7	674.7	674.7	674.7	674.6	674.6	674.6
674.5	674.5	674.5	674.5	674.4	674.4	674.4	674.4	674.3	674.3
674.3	674.3	674.3	674.2	674.2	674.2	674.2	674.2	674.1	674.1
674.1	674.1	674.1	674.0	674.0	674.0	674.0	674.0	674.0	673.9
673.9	673.9	673.9	673.9	673.9	673.9	673.8	673.8		

PEAK OUTFLOW IS 2278. AT TIME 15.83 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	2278.	617.	180.	180.	51904.
CMS	65.	17.	5.	5.	1470.
INCHES		25.16	29.41	29.41	29.41
MM		639.01	747.07	747.07	747.07
AC-FT		306.	357.	357.	357.
THOUS CU M		377.	441.	441.	441.

MAXIMUM STORAGE = 53.

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SUB-AREA RUNOFF COMPUTATION

SUBAREA RUNOFF FOR SUGARHOLLOW LAKE

ISTAO	ICOMP	IECON	ITAPE	JPLT	JPRT	INAME	ISTAGE	IAUTO
INFLOW	0	-0	-0	1	3	1	-0	-0

HYDROGRAPH DATA

IHYDG	IUHG	TAREA	SNAP	TRSDA	TRSPC	RATIO	ISNOW	ISAME	LOCAL
1	2	1.51	-0.00	1.51	1.00	-0.000	-0	1	-0

PRECIP DATA

SPFE	PMS	R6	R12	R24	R48	R72	R96
-0.00	26.00	100.00	120.00	130.00	-0.00	-0.00	-0.00

LOSS DATA

LROPT	STRKR	DLTKR	RTIOL	ERAIN	STRKS	RTIOK	STRTL	CNSTL	ALSMX	RTIMP
-0	-0.00	-0.00	1.00	-0.00	-0.00	1.00	-1.00	-82.00	-0.00	.10

CURVE NO = -82.00 WETNESS = -1.00 EFFECT CN = 82.00

UNIT HYDROGRAPH DATA

TC= -0.00 LAG= .55

RECESSION DATA

STRTQ= 3.02 QRCSN= -.10 RTIOR= 3.00

UNIT HYDROGRAPH 35 END OF PERIOD ORDINATES, TC= -0.00 HOURS, LAG= .55 VOL= 1.00

72.	214.	426.	728.	1016.	1179.	1231.	1200.	1088.	951.
765.	579.	458.	362.	294.	235.	183.	148.	118.	93.
74.	59.	47.	37.	30.	24.	18.	15.	12.	10.
8.	6.	4.	3.	1.					

0 END-OF-PERIOD FLOW

MO.DA	HR.MN	PERIOD	RAIN	EXCS	LOSS	COMP Q	MO.DA	HR.MN	PERIOD	RAIN	EXCS	LOSS	COMP Q
1.01	.05	1	.01	.00	.01	3.	1.01	12.05	145	.22	.20	.01	787.
1.01	.10	2	.01	.00	.01	3.	1.01	12.10	146	.22	.20	.01	817.
1.01	.15	3	.01	.00	.01	3.	1.01	12.15	147	.22	.20	.01	876.
1.01	.20	4	.01	.00	.01	4.	1.01	12.20	148	.22	.20	.01	976.
1.01	.25	5	.01	.00	.01	5.	1.01	12.25	149	.22	.20	.01	1116.
1.01	.30	6	.01	.00	.01	7.	1.01	12.30	150	.22	.21	.01	1277.
1.01	.35	7	.01	.00	.01	8.	1.01	12.35	151	.22	.21	.01	1447.
1.01	.40	8	.01	.00	.01	10.	1.01	12.40	152	.22	.21	.01	1613.
1.01	.45	9	.01	.00	.01	11.	1.01	12.45	153	.22	.21	.01	1764.
1.01	.50	10	.01	.00	.01	13.	1.01	12.50	154	.22	.21	.01	1897.
1.01	.55	11	.01	.00	.01	14.	1.01	12.55	155	.22	.21	.01	2005.
1.01	1.00	12	.01	.00	.01	14.	1.01	13.00	156	.22	.21	.01	2089.
1.01	1.05	13	.01	.00	.01	15.	1.01	13.05	157	.26	.25	.01	2159.
1.01	1.10	14	.01	.00	.01	15.	1.01	13.10	158	.26	.25	.01	2222.
1.01	1.15	15	.01	.00	.01	16.	1.01	13.15	159	.26	.25	.01	2284.
1.01	1.20	16	.01	.00	.01	16.	1.01	13.20	160	.26	.25	.01	2352.
1.01	1.25	17	.01	.00	.01	16.	1.01	13.25	161	.26	.25	.01	2424.
1.01	1.30	18	.01	.00	.01	16.	1.01	13.30	162	.26	.25	.01	2498.
1.01	1.35	19	.01	.00	.01	17.	1.01	13.35	163	.26	.25	.01	2570.
1.01	1.40	20	.01	.00	.01	17.	1.01	13.40	164	.26	.25	.01	2637.
1.01	1.45	21	.01	.00	.01	17.	1.01	13.45	165	.26	.25	.01	2697.
1.01	1.50	22	.01	.00	.01	17.	1.01	13.50	166	.26	.25	.01	2749.
1.01	1.55	23	.01	.00	.01	17.	1.01	13.55	167	.26	.25	.01	2792.
1.01	2.00	24	.01	.00	.01	17.	1.01	14.00	168	.26	.25	.01	2826.
1.01	2.05	25	.01	.00	.01	17.	1.01	14.05	169	.32	.32	.01	2857.
1.01	2.10	26	.01	.00	.01	17.	1.01	14.10	170	.32	.32	.01	2893.
1.01	2.15	27	.01	.00	.01	17.	1.01	14.15	171	.32	.32	.01	2939.
1.01	2.20	28	.01	.00	.01	17.	1.01	14.20	172	.32	.32	.01	3001.
1.01	2.25	29	.01	.00	.01	17.	1.01	14.25	173	.32	.32	.01	3078.
1.01	2.30	30	.01	.00	.01	17.	1.01	14.30	174	.32	.32	.01	3164.
1.01	2.35	31	.01	.00	.01	17.	1.01	14.35	175	.32	.32	.01	3252.
1.01	2.40	32	.01	.00	.01	17.	1.01	14.40	176	.32	.32	.01	3336.
1.01	2.45	33	.01	.00	.01	17.	1.01	14.45	177	.32	.32	.01	3413.
1.01	2.50	34	.01	.00	.01	17.	1.01	14.50	178	.32	.32	.00	3479.
1.01	2.55	35	.01	.00	.01	17.	1.01	14.55	179	.32	.32	.00	3533.
1.01	3.00	36	.01	.00	.01	18.	1.01	15.00	180	.32	.32	.00	3574.
1.01	3.05	37	.01	.00	.01	18.	1.01	15.05	181	.20	.19	.00	3599.
1.01	3.10	38	.01	.00	.01	19.	1.01	15.10	182	.40	.39	.01	3613.
1.01	3.15	39	.01	.00	.01	20.	1.01	15.15	183	.40	.39	.01	3623.
1.01	3.20	40	.01	.00	.01	21.	1.01	15.20	184	.59	.59	.01	3647.
1.01	3.25	41	.01	.00	.01	23.	1.01	15.25	185	.69	.68	.01	3725.
1.01	3.30	42	.01	.00	.01	24.	1.01	15.30	186	1.68	1.66	.02	3962.
1.01	3.35	43	.01	.00	.01	26.	1.01	15.35	187	2.77	2.74	.02	4518.
1.01	3.40	44	.01	.00	.01	27.	1.01	15.40	188	1.09	1.08	.01	5414.
1.01	3.45	45	.01	.00	.01	29.	1.01	15.45	189	.69	.69	.00	6637.
1.01	3.50	46	.01	.00	.01	30.	1.01	15.50	190	.59	.59	.00	8071.
1.01	3.55	47	.01	.00	.01	32.	1.01	15.55	191	.40	.39	.00	9359.
1.01	4.00	48	.01	.00	.01	33.	1.01	16.00	192	.40	.39	.00	10188.
1.01	4.05	49	.01	.00	.01	35.	1.01	16.05	193	.30	.30	.00	10521.
1.01	4.10	50	.01	.00	.01	37.	1.01	16.10	194	.30	.30	.00	10399.
1.01	4.15	51	.01	.00	.01	38.	1.01	16.15	195	.30	.30	.00	9995.

1.01	4.20	52	.01	.00	.01	40.	1.01	16.20	196	.30	.30	.00	9148.
1.01	4.25	53	.01	.00	.01	41.	1.01	16.25	197	.30	.30	.00	8221.
1.01	4.30	54	.01	.00	.01	43.	1.01	16.30	198	.30	.30	.00	7310.
1.01	4.35	55	.01	.00	.01	44.	1.01	16.35	199	.30	.30	.00	6567.
1.01	4.40	56	.01	.00	.01	46.	1.01	16.40	200	.30	.30	.00	5958.
1.01	4.45	57	.01	.00	.01	47.	1.01	16.45	201	.30	.30	.00	5474.
1.01	4.50	58	.01	.01	.01	48.	1.01	16.50	202	.30	.30	.00	5075.
1.01	4.55	59	.01	.01	.01	50.	1.01	16.55	203	.30	.30	.00	4751.
1.01	5.00	60	.01	.01	.01	51.	1.01	17.00	204	.30	.30	.00	4505.
1.01	5.05	61	.01	.01	.01	53.	1.01	17.05	205	.24	.24	.00	4300.
1.01	5.10	62	.01	.01	.01	54.	1.01	17.10	206	.24	.24	.00	4125.
1.01	5.15	63	.01	.01	.01	55.	1.01	17.15	207	.24	.24	.00	3971.
1.01	5.20	64	.01	.01	.01	56.	1.01	17.20	208	.24	.24	.00	3824.
1.01	5.25	65	.01	.01	.01	58.	1.01	17.25	209	.24	.24	.00	3679.
1.01	5.30	66	.01	.01	.01	59.	1.01	17.30	210	.24	.24	.00	3539.
1.01	5.35	67	.01	.01	.01	60.	1.01	17.35	211	.24	.24	.00	3410.
1.01	5.40	68	.01	.01	.01	61.	1.01	17.40	212	.24	.24	.00	3292.
1.01	5.45	69	.01	.01	.01	63.	1.01	17.45	213	.24	.24	.00	3190.
1.01	5.50	70	.01	.01	.01	64.	1.01	17.50	214	.24	.24	.00	3105.
1.01	5.55	71	.01	.01	.01	65.	1.01	17.55	215	.24	.24	.00	3037.
1.01	6.00	72	.01	.01	.01	66.	1.01	18.00	216	.24	.24	.00	2984.
1.01	6.05	73	.07	.03	.04	69.	1.01	18.05	217	.02	.02	.00	2925.
1.01	6.10	74	.07	.04	.04	76.	1.01	18.10	218	.02	.02	.00	2843.
1.01	6.15	75	.07	.04	.04	89.	1.01	18.15	219	.02	.02	.00	2721.
1.01	6.20	76	.07	.04	.03	111.	1.01	18.20	220	.02	.02	.00	2539.
1.01	6.25	77	.07	.04	.03	141.	1.01	18.25	221	.02	.02	.00	2299.
1.01	6.30	78	.07	.04	.03	178.	1.01	18.30	222	.02	.02	.00	2030.
1.01	6.35	79	.07	.04	.03	218.	1.01	18.35	223	.02	.02	.00	1755.
1.01	6.40	80	.07	.04	.03	259.	1.01	18.40	224	.02	.02	.00	1489.
1.01	6.45	81	.07	.05	.03	298.	1.01	18.45	225	.02	.02	.00	1249.
1.01	6.50	82	.07	.05	.03	335.	1.01	18.50	226	.02	.02	.00	1045.
1.01	6.55	83	.07	.05	.02	369.	1.01	18.55	227	.02	.02	.00	937.
1.01	7.00	84	.07	.05	.02	397.	1.01	19.00	228	.02	.02	.00	839.
1.01	7.05	85	.07	.05	.02	423.	1.01	19.05	229	.02	.02	.00	752.
1.01	7.10	86	.07	.05	.02	446.	1.01	19.10	230	.02	.02	.00	674.
1.01	7.15	87	.07	.05	.02	467.	1.01	19.15	231	.02	.02	.00	604.
1.01	7.20	88	.07	.05	.02	487.	1.01	19.20	232	.02	.02	.00	541.
1.01	7.25	89	.07	.05	.02	504.	1.01	19.25	233	.02	.02	.00	485.
1.01	7.30	90	.07	.05	.02	520.	1.01	19.30	234	.02	.02	.00	434.
1.01	7.35	91	.07	.05	.02	535.	1.01	19.35	235	.02	.02	.00	389.
1.01	7.40	92	.07	.05	.02	549.	1.01	19.40	236	.02	.02	.00	348.
1.01	7.45	93	.07	.06	.02	561.	1.01	19.45	237	.02	.02	.00	312.
1.01	7.50	94	.07	.06	.02	573.	1.01	19.50	238	.02	.02	.00	299.
1.01	7.55	95	.07	.06	.02	584.	1.01	19.55	239	.02	.02	.00	289.
1.01	8.00	96	.07	.06	.02	595.	1.01	20.00	240	.02	.02	.00	281.
1.01	8.05	97	.07	.06	.02	604.	1.01	20.05	241	.02	.02	.00	274.
1.01	8.10	98	.07	.06	.01	613.	1.01	20.10	242	.02	.02	.00	269.
1.01	8.15	99	.07	.06	.01	622.	1.01	20.15	243	.02	.02	.00	265.
1.01	8.20	100	.07	.06	.01	630.	1.01	20.20	244	.02	.02	.00	262.
1.01	8.25	101	.07	.06	.01	637.	1.01	20.25	245	.02	.02	.00	259.
1.01	8.30	102	.07	.06	.01	645.	1.01	20.30	246	.02	.02	.00	257.
1.01	8.35	103	.07	.06	.01	651.	1.01	20.35	247	.02	.02	.00	255.
1.01	8.40	104	.07	.06	.01	658.	1.01	20.40	248	.02	.02	.00	254.
1.01	8.45	105	.07	.06	.01	664.	1.01	20.45	249	.02	.02	.00	253.
1.01	8.50	106	.07	.06	.01	670.	1.01	20.50	250	.02	.02	.00	252.
1.01	8.55	107	.07	.06	.01	675.	1.01	20.55	251	.02	.02	.00	252.
1.01	9.00	108	.07	.06	.01	680.	1.01	21.00	252	.02	.02	.00	252.
1.01	9.05	109	.07	.06	.01	685.	1.01	21.05	253	.02	.02	.00	252.
1.01	9.10	110	.07	.06	.01	690.	1.01	21.10	254	.02	.02	.00	252.
1.01	9.15	111	.07	.06	.01	694.	1.01	21.15	255	.02	.02	.00	252.
1.01	9.20	112	.07	.06	.01	699.	1.01	21.20	256	.02	.02	.00	252.
1.01	9.25	113	.07	.06	.01	703.	1.01	21.25	257	.02	.02	.00	252.
1.01	9.30	114	.07	.06	.01	707.	1.01	21.30	258	.02	.02	.00	252.
1.01	9.35	115	.07	.06	.01	711.	1.01	21.35	259	.02	.02	.00	252.

1.01	9.40	116	.07	.06	.01	714.	1.01	21.45	261	.02	.02	.00	252.
1.01	9.45	117	.07	.06	.01	718.	1.01	21.50	262	.02	.02	.00	252.
1.01	9.50	118	.07	.06	.01	721.	1.01	21.55	263	.02	.02	.00	252.
1.01	9.55	119	.07	.06	.01	724.	1.01	22.00	264	.02	.02	.00	252.
1.01	10.00	120	.07	.06	.01	727.	1.01	22.05	265	.02	.02	.00	252.
1.01	10.05	121	.07	.06	.01	730.	1.01	22.10	266	.02	.02	.00	252.
1.01	10.10	122	.07	.06	.01	733.	1.01	22.15	267	.02	.02	.00	252.
1.01	10.15	123	.07	.06	.01	736.	1.01	22.20	268	.02	.02	.00	252.
1.01	10.20	124	.07	.06	.01	739.	1.01	22.25	269	.02	.02	.00	252.
1.01	10.25	125	.07	.07	.01	741.	1.01	22.30	270	.02	.02	.00	252.
1.01	10.30	126	.07	.07	.01	744.	1.01	22.35	271	.02	.02	.00	252.
1.01	10.35	127	.07	.07	.01	746.	1.01	22.40	272	.02	.02	.00	252.
1.01	10.40	128	.07	.07	.01	748.	1.01	22.45	273	.02	.02	.00	252.
1.01	10.45	129	.07	.07	.01	751.	1.01	22.50	274	.02	.02	.00	252.
1.01	10.50	130	.07	.07	.01	753.	1.01	22.55	275	.02	.02	.00	252.
1.01	10.55	131	.07	.07	.01	755.	1.01	23.00	276	.02	.02	.00	252.
1.01	11.00	132	.07	.07	.01	757.	1.01	23.05	277	.02	.02	.00	252.
1.01	11.05	133	.07	.07	.01	759.	1.01	23.10	278	.02	.02	.00	252.
1.01	11.10	134	.07	.07	.01	761.	1.01	23.15	279	.02	.02	.00	252.
1.01	11.15	135	.07	.07	.01	762.	1.01	23.20	280	.02	.02	.00	252.
1.01	11.20	136	.07	.07	.01	764.	1.01	23.25	281	.02	.02	.00	252.
1.01	11.25	137	.07	.07	.01	766.	1.01	23.30	282	.02	.02	.00	252.
1.01	11.30	138	.07	.07	.01	767.	1.01	23.35	283	.02	.02	.00	252.
1.01	11.35	139	.07	.07	.01	769.	1.01	23.40	284	.02	.02	.00	252.
1.01	11.40	140	.07	.07	.01	771.	1.01	23.45	285	.02	.02	.00	252.
1.01	11.45	141	.07	.07	.01	772.	1.01	23.50	286	.02	.02	.00	252.
1.01	11.50	142	.07	.07	.01	773.	1.01	23.55	287	.02	.02	.00	252.
1.01	11.55	143	.07	.07	.01	775.	1.02	0.00	288	.02	.02	.00	252.
1.01	12.00	144	.07	.07	.00	776.							
									SUM	33.80	31.55	2.25	367490.
										(859.1	(801.1	(57.1	(10406.1

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	10521.	4052.	1276.	1276.	367372.
CMS	298.	115.	36.	36.	10403.
INCHES		24.97	31.43	31.43	31.43
MM		634.12	798.40	798.40	798.40
AC-FT		2010.	2530.	2530.	2530.
THOUS CU M		2479.	3121.	3121.	3121.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 1

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1052.	405.	128.	128.	36737.
CMS	30.	11.	4.	4.	1040.
INCHES		2.50	3.14	3.14	3.14
MM		63.41	79.84	79.84	79.84
AC-FT		201.	253.	253.	253.
THOUS CU M		248.	312.	312.	312.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 2

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	2104.	810.	255.	255.	73474.
CMS	60.	23.	7.	7.	2081.
INCHES		4.99	6.29	6.29	6.29
MM		126.82	159.68	159.68	159.68
AC-FT		402.	506.	506.	506.
THOUS CU M		496.	624.	624.	624.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 3

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	3156.	1216.	383.	383.	110212.
CMS	89.	34.	11.	11.	3121.
INCHES		7.49	9.43	9.43	9.43
MM		190.24	239.52	239.52	239.52
AC-FT		603.	759.	759.	759.
THOUS CU M		744.	936.	936.	936.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 4

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	4208.	1621.	510.	510.	146949.
CMS	119.	46.	14.	14.	4161.
INCHES		9.99	12.57	12.57	12.57
MM		253.65	319.36	319.36	319.36
AC-FT		804.	1012.	1012.	1012.
THOUS CU M		991.	1248.	1248.	1248.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 5

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	5261.	2026.	638.	638.	183686.
CMS	149.	57.	18.	18.	5201.
INCHES		12.48	15.72	15.72	15.72
MM		317.06	399.20	399.20	399.20
AC-FT		1005.	1265.	1265.	1265.
THOUS CU M		1239.	1560.	1560.	1560.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 6

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	10521.	4052.	1276.	1276.	367372.
CMS	298.	115.	36.	36.	10403.
INCHES		24.97	31.43	31.43	31.43
MM		634.12	798.40	798.40	798.40
AC-FT		2010.	2530.	2530.	2530.
THOUS CU M		2479.	3121.	3121.	3121.

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HYDROGRAPH ROUTING

RESERVOIR ROUTING FOR SUGARHOLLOW LAKE

ISTAO	ICOMP	IECON	ITAPE	JPLT	JPRT	INAME	ISTAGE	IAUTO
OUTING	1	-0	-0	1	3	1	-0	-0

ROUTING DATA

QLOSS	CLOSS	AVG	IPES	IS4ME	IOPT	IPMP	LSTR
-0.0	-0.000	-0.00	1	1	-0	-0	-0

NSTPS	NSTDL	LAG	AMSKK	X	TSK	STORA	ISPRAT
1	-0	-0	-0.000	-0.000	-0.000	-650.	-1

STAGE	650.3	650.5	651.0	651.5	652.0	652.5	653.0	653.5	654.0	654.5
	655.0	655.5	656.0	656.5	657.0	657.5	658.0	659.0	660.0	661.0
FLOW	0.	3.	19.	43.	60.	69.	76.	83.	89.	95.
	100.	106.	111.	115.	120.	124.	130.	257.	838.	1593.
CAPACITY=	0.	3.	11.	19.	27.	36.	44.	53.	62.	71.
	80.	89.	99.	108.	118.	128.	138.	158.	179.	201.
ELEVATION=	650.	650.	651.	651.	652.	652.	653.	653.	654.	654.
	655.	655.	656.	656.	657.	657.	658.	659.	660.	661.

CREL	SPWID	COQW	EXPW	ELEVL	COQL	CAREA	EXPL
650.3	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0

DAM DATA

TOPEL	COQD	EXPD	DAMWID
658.2	-0.0	-0.0	-0.

STATION OUTING, PLAN 1, RATIO 1

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	2.	2.
2.	2.	2.	3.	3.	3.	4.	4.	5.	6.
6.	7.	8.	8.	9.	10.	10.	11.	12.	12.
13.	14.	15.	15.	16.	17.	17.	18.	19.	20.
21.	22.	23.	24.	25.	25.	26.	27.	28.	29.
30.	31.	32.	33.	33.	34.	35.	36.	37.	37.
38.	39.	40.	40.	41.	42.	42.	43.	44.	44.
45.	45.	45.	46.	46.	47.	47.	48.	49.	50.
51.	53.	54.	56.	58.	60.	61.	63.	64.	65.
66.	67.	68.	70.	71.	72.	73.	74.	76.	77.
78.	79.	80.	82.	83.	84.	85.	87.	88.	89.
90.	92.	93.	94.	95.	96.	98.	99.	101.	104.
107.	110.	113.	116.	119.	122.	124.	126.	129.	137.
155.	171.	184.	196.	206.	215.	223.	230.	236.	241.
246.	249.	252.	256.	258.	265.	270.	274.	274.	272.
267.	258.	255.	251.	246.	240.	235.	229.	222.	216.
210.	203.	197.	191.	184.	178.	172.	166.	161.	155.
150.	145.	140.	135.	130.	129.	129.	129.	128.	128.
128.	127.	127.	126.	126.	126.	125.	125.	124.	124.
124.	124.	123.	123.	123.	122.	122.	122.	121.	121.
121.	121.	120.	120.	120.	119.	119.	119.	118.	118.
118.	118.	117.	117.	117.	116.	116.	116.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	2.	2.	2.

2.	2.	2.	3.	3.	3.	4.	4.	4.	4.
5.	5.	5.	6.	6.	6.	7.	7.	7.	8.
8.	9.	9.	9.	10.	10.	10.	11.	11.	11.
12.	12.	12.	13.	13.	13.	14.	14.	14.	14.
15.	15.	15.	16.	16.	16.	17.	17.	17.	17.
18.	18.	18.	18.	19.	19.	19.	19.	20.	20.
20.	20.	20.	21.	21.	21.	21.	22.	22.	23.
23.	24.	25.	25.	26.	27.	28.	30.	31.	32.
33.	34.	36.	37.	38.	40.	41.	42.	44.	45.
47.	49.	50.	51.	53.	55.	56.	58.	60.	62.
54.	66.	67.	69.	71.	73.	75.	78.	82.	86.
91.	97.	104.	110.	116.	122.	127.	132.	135.	139.
142.	144.	146.	148.	150.	151.	153.	154.	155.	156.
156.	157.	157.	158.	158.	158.	159.	159.	159.	159.
159.	158.	158.	157.	156.	156.	155.	154.	153.	152.
151.	150.	149.	148.	146.	146.	145.	144.	143.	142.
141.	140.	139.	139.	138.	137.	136.	136.	135.	134.
134.	133.	132.	131.	131.	130.	129.	129.	129.	127.
127.	126.	125.	125.	124.	123.	123.	122.	121.	121.
120.	119.	119.	118.	117.	117.	116.	115.	115.	114.
113.	113.	112.	112.	111.	110.	110.	109.		

STAGE

650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.4
650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4
650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4
650.4	650.4	650.5	650.5	650.5	650.5	650.5	650.5	650.6	650.6
650.6	650.6	650.6	650.7	650.7	650.7	650.7	650.8	650.8	650.8
650.8	650.8	650.9	650.9	650.9	650.9	650.9	651.0	651.0	651.0
651.0	651.1	651.1	651.1	651.1	651.1	651.2	651.2	651.2	651.2
651.2	651.2	651.3	651.3	651.3	651.3	651.3	651.4	651.4	651.4
651.4	651.4	651.4	651.4	651.5	651.5	651.5	651.5	651.5	651.5
651.5	651.6	651.6	651.6	651.6	651.6	651.6	651.6	651.7	651.7
651.7	651.8	651.8	651.9	651.9	652.0	652.1	652.1	652.2	652.3
652.3	652.4	652.5	652.6	652.6	652.7	652.8	652.9	653.0	653.1
653.1	653.2	653.3	653.4	653.5	653.6	653.7	653.8	653.9	654.0
654.1	654.2	654.3	654.4	654.5	654.6	654.8	654.9	655.1	655.3
655.6	655.9	656.3	656.6	656.9	657.2	657.5	657.7	657.9	658.1
658.2	658.3	658.4	658.5	658.6	658.7	658.7	658.8	658.8	658.9
658.9	658.9	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
659.0	659.0	659.0	658.9	658.9	658.9	658.8	658.8	658.7	658.7
658.6	658.6	658.5	658.5	658.4	658.4	658.3	658.3	658.2	658.2
658.2	658.1	658.1	658.0	658.0	658.0	657.9	657.9	657.9	657.8
657.8	657.8	657.7	657.7	657.7	657.6	657.6	657.5	657.5	657.5
657.4	657.4	657.4	657.3	657.3	657.3	657.2	657.2	657.2	657.1
657.1	657.1	657.0	657.0	657.0	656.9	656.9	656.9	656.8	656.8
656.8	656.7	656.7	656.7	656.6	656.6	656.6	656.5		

PEAK OUTFLOW IS 274. AT TIME 18.25 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	274.	181.	73.	73.	20905.
CMS	8.	5.	2.	2.	592.
INCHES		1.11	1.79	1.79	1.79
MM		28.27	45.43	45.43	45.43
AC-FT		90.	144.	144.	144.
THOUS CU M		111.	178.	178.	178.

MAXIMUM STORAGE = 159.

STATION OUTING, PLAN 1, RATIO 2

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	3.	3.	3.	3.	4.
5.	6.	6.	7.	8.	10.	11.	12.	13.	14.
16.	17.	18.	20.	22.	24.	25.	27.	29.	31.
33.	35.	37.	39.	41.	43.	44.	45.	47.	48.
49.	51.	52.	53.	55.	56.	57.	58.	60.	61.
61.	62.	62.	63.	63.	64.	65.	65.	66.	66.
67.	68.	68.	69.	69.	70.	70.	71.	71.	72.
72.	73.	73.	74.	74.	75.	75.	76.	77.	77.
78.	80.	81.	83.	84.	86.	87.	89.	91.	92.
94.	96.	97.	99.	101.	103.	104.	106.	108.	110.
111.	113.	115.	116.	118.	120.	121.	123.	125.	127.
130.	151.	175.	198.	221.	244.	307.	426.	562.	720.
943.	1169.	1342.	1486.	1590.	1650.	1667.	1645.	1596.	1534.
1456.	1379.	1303.	1231.	1163.	1102.	1046.	995.	948.	827.
804.	781.	758.	736.	715.	695.	677.	659.	642.	621.
598.	569.	536.	499.	460.	420.	381.	346.	313.	284.
257.	251.	245.	238.	232.	225.	219.	212.	206.	200.
194.	188.	182.	177.	171.	166.	162.	157.	153.	148.
144.	140.	137.	133.	130.	129.	129.	129.	129.	128.
128.	128.	127.	127.	127.	127.	126.	126.	126.	125.
125.	125.	125.	124.	124.	124.	124.	123.	123.	123.
123.	122.	122.	122.	122.	122.	121.	121.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	2.	2.
2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	3.	3.	3.	3.	3.	3.	4.
4.	4.	5.	5.	6.	6.	7.	8.	8.	9.
9.	10.	11.	11.	12.	13.	13.	14.	15.	15.
16.	17.	17.	18.	18.	19.	20.	20.	21.	22.
22.	23.	23.	24.	25.	25.	26.	26.	27.	28.
28.	29.	29.	30.	31.	31.	32.	32.	33.	33.
34.	35.	35.	36.	36.	37.	37.	38.	39.	39.
40.	40.	41.	41.	42.	43.	43.	44.	45.	46.
47.	49.	51.	53.	55.	57.	59.	62.	64.	67.
69.	72.	75.	78.	81.	84.	87.	90.	93.	97.
100.	103.	107.	110.	114.	117.	121.	125.	129.	133.
137.	141.	145.	149.	152.	156.	160.	164.	169.	175.
181.	187.	193.	197.	201.	203.	203.	203.	201.	199.
196.	194.	191.	189.	187.	185.	183.	181.	180.	179.
178.	177.	176.	175.	175.	174.	173.	173.	172.	171.

170.	169.	168.	167.	166.	164.	163.	161.	160.	159.
158.	157.	156.	155.	154.	153.	152.	151.	150.	149.
148.	147.	146.	145.	144.	144.	143.	142.	141.	141.
140.	139.	139.	138.	138.	137.	137.	136.	135.	135.
134.	134.	133.	133.	132.	132.	131.	131.	130.	130.
129.	129.	128.	128.	127.	127.	126.	126.	125.	125.
124.	124.	123.	123.	122.	122.	121.	121.		

STAGE

650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4
650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4
650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4
650.4	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5
650.6	650.6	650.6	650.6	650.7	650.7	650.7	650.8	650.8	650.9
650.9	650.9	651.0	651.0	651.1	651.1	651.1	651.2	651.2	651.3
651.3	651.3	651.4	651.4	651.5	651.5	651.5	651.6	651.6	651.6
651.7	651.7	651.8	651.8	651.8	651.9	651.9	651.9	652.0	652.0
652.0	652.1	652.1	652.2	652.2	652.2	652.3	652.3	652.3	652.4
652.4	652.4	652.5	652.5	652.5	652.6	652.6	652.6	652.7	652.7
652.7	652.8	652.8	652.8	652.9	652.9	652.9	653.0	653.0	653.1
653.2	653.3	653.4	653.5	653.6	653.7	653.9	654.0	654.1	654.3
654.4	654.6	654.7	654.9	655.1	655.2	655.4	655.6	655.7	655.9
656.1	656.2	656.4	656.6	656.8	657.0	657.2	657.4	657.6	657.8
658.0	658.2	658.4	658.5	658.7	658.9	659.1	659.3	659.5	659.8
660.1	660.4	660.6	660.8	661.0	661.1	661.1	661.1	661.0	660.9
660.8	660.7	660.6	660.5	660.4	660.3	660.2	660.1	660.0	660.0
659.9	659.9	659.9	659.8	659.8	659.8	659.7	659.7	659.7	659.6
659.6	659.5	659.5	659.4	659.3	659.3	659.2	659.2	659.1	659.0
659.0	659.0	658.9	658.9	658.8	658.8	658.7	658.6	658.6	658.5
658.5	658.5	658.4	658.4	658.3	658.3	658.3	658.2	658.2	658.1
658.1	658.1	658.1	658.0	658.0	658.0	657.9	657.9	657.9	657.9
657.8	657.8	657.8	657.8	657.7	657.7	657.7	657.7	657.6	657.6
657.6	657.5	657.5	657.5	657.5	657.4	657.4	657.4	657.4	657.3
657.3	657.3	657.3	657.2	657.2	657.2	657.2	657.1		

PEAK OUTFLOW IS 1667. AT TIME 16.42 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1667.	625.	194.	194.	55962.
CMS	47.	18.	6.	6.	1585.
INCHES		3.85	4.79	4.79	4.79
MM		97.81	121.62	121.62	121.62
AC-FT		310.	385.	385.	385.
THOUS CU M		382.	475.	475.	475.

MAXIMUM STORAGE = 293.

STATION OUTING, PLAN 1, RATIO 3

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.

1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	3.	3.	3.	3.	3.	3.	3.
4.	4.	4.	4.	5.	5.	5.	6.	7.	8.
9.	10.	11.	13.	14.	16.	17.	19.	22.	24.
27.	30.	33.	35.	38.	41.	43.	46.	48.	50.
52.	54.	56.	58.	60.	61.	62.	63.	64.	65.
66.	67.	68.	69.	70.	71.	71.	72.	73.	74.
75.	76.	77.	77.	78.	79.	80.	80.	81.	82.
83.	83.	84.	85.	86.	86.	87.	88.	88.	89.
90.	90.	91.	92.	92.	93.	94.	94.	95.	96.
98.	99.	101.	103.	104.	106.	108.	110.	112.	114.
116.	118.	120.	122.	124.	127.	130.	159.	188.	216.
243.	313.	417.	508.	587.	656.	718.	773.	821.	945.
970.	992.	1010.	1025.	1041.	1042.	1102.	1177.	1298.	1472.
1691.	1929.	2155.	2343.	2478.	2550.	2561.	2517.	2433.	2327.
2209.	2089.	1971.	1859.	1756.	1662.	1576.	1498.	1427.	1361.
1300.	1243.	1191.	1144.	1101.	1063.	1029.	998.	966.	932.
817.	788.	749.	704.	653.	599.	547.	498.	453.	411.
373.	338.	306.	277.	255.	249.	243.	237.	231.	225.
219.	213.	207.	202.	197.	192.	187.	182.	178.	174.
170.	166.	162.	158.	155.	152.	148.	145.	142.	140.
137.	134.	132.	130.	130.	129.	129.	129.	129.	129.
128.	128.	128.	128.	128.	127.	127.	127.	127.	127.
126.	126.	126.	126.	126.	125.	125.	125.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	2.	2.
2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
2.	3.	3.	3.	3.	3.	3.	3.	3.	3.
3.	4.	4.	4.	4.	4.	4.	5.	5.	5.
6.	7.	7.	8.	9.	9.	10.	11.	12.	13.
14.	15.	16.	17.	18.	19.	19.	20.	21.	22.
23.	24.	25.	26.	27.	28.	29.	30.	31.	32.
33.	34.	35.	36.	37.	38.	39.	40.	41.	42.
43.	44.	45.	46.	47.	48.	49.	50.	51.	52.
53.	54.	55.	56.	57.	58.	59.	60.	61.	62.
63.	64.	65.	66.	67.	68.	69.	70.	71.	73.
75.	78.	81.	84.	87.	91.	94.	98.	102.	106.
110.	114.	119.	123.	128.	133.	138.	142.	147.	152.
156.	160.	164.	167.	170.	173.	175.	177.	179.	180.
181.	181.	182.	182.	183.	184.	185.	187.	191.	197.
204.	212.	219.	225.	230.	232.	232.	231.	228.	225.
221.	217.	213.	210.	206.	203.	200.	198.	195.	193.
191.	190.	188.	186.	185.	184.	183.	182.	181.	179.
178.	177.	176.	174.	172.	171.	169.	167.	165.	164.
162.	161.	160.	159.	158.	157.	156.	155.	154.	153.
152.	151.	150.	149.	149.	148.	147.	146.	145.	145.
144.	143.	143.	142.	142.	141.	141.	140.	140.	139.
139.	138.	138.	138.	137.	137.	137.	136.	136.	135.
135.	135.	134.	134.	134.	133.	133.	133.	132.	132.
132.	131.	131.	131.	130.	130.	129.	129.		

STAGE

650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4
650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4
650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.5

650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5
650.5	650.5	650.5	650.5	650.6	650.6	650.6	650.6	650.6	650.6
650.7	650.7	650.8	650.8	650.8	650.9	650.9	651.0	651.1	651.1
651.2	651.2	651.3	651.3	651.4	651.5	651.5	651.6	651.6	651.7
651.7	651.8	651.9	651.9	652.0	652.0	652.1	652.2	652.2	652.3
652.3	652.4	652.4	652.5	652.6	652.6	652.7	652.7	652.8	652.9
652.9	653.0	653.0	653.1	653.1	653.2	653.3	653.3	653.4	653.4
653.5	653.5	653.6	653.7	653.7	653.8	653.8	653.9	653.9	654.0
654.0	654.1	654.2	654.2	654.3	654.3	654.4	654.5	654.5	654.6
654.8	654.9	655.0	655.2	655.4	655.6	655.8	656.0	656.2	656.4
656.6	656.9	657.1	657.3	657.5	657.7	658.0	658.2	658.5	658.7
658.9	659.1	659.3	659.4	659.6	659.7	659.8	659.9	660.0	660.0
660.1	660.1	660.1	660.1	660.2	660.2	660.3	660.4	660.6	660.8
661.1	661.5	661.8	662.1	662.3	662.4	662.4	662.4	662.3	662.1
661.9	661.7	661.6	661.4	661.2	661.1	661.0	660.9	660.8	660.7
660.6	660.5	660.4	660.3	660.3	660.2	660.2	660.1	660.1	660.0
660.0	659.9	659.8	659.8	659.7	659.6	659.5	659.4	659.3	659.3
659.2	659.1	659.1	659.0	659.0	658.9	658.9	658.8	658.8	658.7
658.7	658.7	658.6	658.6	658.5	658.5	658.5	658.4	658.4	658.3
658.3	658.3	658.3	658.2	658.2	658.2	658.1	658.1	658.1	658.1
658.1	658.0	658.0	658.0	658.0	658.0	657.9	657.9	657.9	657.9
657.9	657.9	657.8	657.8	657.8	657.8	657.8	657.7	657.7	657.7
657.7	657.7	657.7	657.6	657.6	657.6	657.6	657.6		

PEAK OUTFLOW IS 2561. AT TIME 16.42 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	2561.	1082.	318.	318.	91469.
CMS	73.	31.	9.	9.	2590.
INCHES		6.66	7.83	7.83	7.83
MM		169.24	198.79	198.79	198.79
AC-FT		536.	630.	630.	630.
THOUS CU M		662.	777.	777.	777.

MAXIMUM STORAGE = 232.

STATION OUTING, PLAN 1, RATIO 4

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	3.	3.	3.	3.	3.
3.	3.	4.	4.	4.	4.	5.	5.	5.	6.
6.	6.	6.	7.	7.	8.	8.	9.	10.	11.
12.	14.	16.	18.	20.	23.	26.	30.	33.	34.
40.	43.	46.	49.	51.	54.	57.	59.	61.	62.
64.	65.	66.	68.	69.	70.	71.	73.	74.	75.
76.	77.	78.	79.	81.	82.	83.	84.	85.	86.
87.	88.	89.	90.	91.	91.	92.	93.	94.	95.
96.	97.	98.	99.	99.	100.	101.	102.	103.	103.
104.	105.	106.	107.	107.	108.	109.	110.	111.	112.
114.	115.	117.	119.	121.	123.	126.	129.	151.	183.
218.	268.	352.	472.	575.	665.	742.	808.	947.	988.
1020.	1053.	1084.	1115.	1148.	1180.	1213.	1244.	1275.	1303.
1328.	1350.	1369.	1385.	1402.	1428.	1479.	1577.	1736.	1968.

1328.	1350.	1369.	1385.	1402.	1428.	1479.	1577.	1736.	1968.
2259.	2575.	2876.	3127.	3305.	3402.	3416.	3356.	3245.	3103.
2946.	2786.	2629.	2480.	2342.	2216.	2101.	1997.	1902.	1814.
1733.	1658.	1588.	1525.	1468.	1418.	1372.	1330.	1289.	1243.
1190.	1128.	1057.	979.	819.	757.	694.	635.	580.	529.
481.	437.	397.	360.	326.	295.	267.	253.	248.	242.
237.	231.	226.	221.	216.	212.	207.	203.	198.	194.
190.	187.	183.	180.	176.	173.	170.	167.	165.	162.
159.	157.	155.	152.	150.	148.	146.	144.	142.	141.
139.	137.	136.	134.	133.	132.	130.	130.	130.	130.
129.	129.	129.	129.	129.	129.	129.	129.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	2.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	3.	3.	3.	3.	3.	3.
3.	3.	4.	4.	4.	4.	4.	4.	4.	4.
5.	5.	5.	5.	5.	5.	6.	6.	7.	7.
8.	9.	9.	10.	11.	12.	14.	15.	16.	17.
18.	19.	21.	22.	23.	24.	26.	27.	28.	29.
31.	32.	33.	35.	36.	38.	39.	40.	42.	43.
44.	46.	47.	49.	50.	51.	53.	54.	56.	57.
58.	60.	61.	63.	64.	66.	67.	68.	70.	71.
73.	74.	75.	77.	78.	80.	81.	83.	84.	85.
87.	88.	90.	91.	92.	94.	95.	97.	99.	102.
105.	104.	112.	116.	121.	126.	131.	136.	141.	146.
152.	157.	162.	166.	170.	173.	176.	178.	180.	181.
182.	183.	184.	185.	186.	187.	189.	190.	191.	191.
192.	193.	194.	194.	195.	196.	197.	200.	206.	213.
223.	233.	243.	251.	256.	260.	260.	258.	255.	250.
245.	240.	235.	230.	225.	221.	217.	214.	211.	208.
205.	203.	201.	199.	197.	195.	194.	192.	191.	190.
188.	186.	183.	181.	179.	176.	174.	172.	170.	168.
166.	165.	163.	162.	161.	160.	159.	158.	157.	156.
155.	154.	153.	152.	152.	151.	150.	149.	149.	148.
147.	147.	146.	146.	145.	145.	144.	144.	143.	143.
142.	142.	142.	141.	141.	141.	140.	140.	140.	139.
139.	139.	139.	138.	138.	138.	138.	138.	137.	137.
137.	137.	137.	136.	136.	136.	136.	136.		

STAGE

650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.3	650.4	650.4	650.4	650.4	650.4	650.4
650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4
650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4
650.4	650.4	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5
650.5	650.5	650.5	650.5	650.5	650.5	650.6	650.6	650.6	650.6
650.6	650.6	650.6	650.6	650.6	650.6	650.7	650.7	650.7	650.8
650.8	650.8	650.9	651.0	651.0	651.1	651.2	651.2	651.3	651.4
651.4	651.5	651.6	651.7	651.7	651.8	651.9	652.0	652.0	652.1
652.2	652.3	652.4	652.4	652.5	652.6	652.7	652.8	652.8	652.9
653.0	653.1	653.2	653.2	653.3	653.4	653.5	653.6	653.6	653.7
653.8	653.9	654.0	654.0	654.1	654.2	654.3	654.4	654.4	654.5
654.6	654.7	654.8	654.8	654.9	655.0	655.1	655.1	655.2	655.3
655.4	655.4	655.5	655.6	655.7	655.7	655.8	655.9	656.0	656.2
656.3	656.5	656.7	656.9	657.2	657.4	657.6	657.9	658.2	658.4
658.7	658.9	659.2	659.4	659.5	659.7	659.8	659.9	660.0	660.1
660.1	660.2	660.2	660.3	660.3	660.4	660.4	660.5	660.5	660.6
660.6	660.6	660.7	660.7	660.7	660.8	660.8	661.0	661.2	661.6
662.0	662.5	662.9	663.3	663.6	663.7	663.7	663.6	663.5	663.3

663.0	662.8	662.5	662.3	662.1	661.9	661.8	661.6	661.5	661.3
661.2	661.1	661.0	660.9	660.8	660.7	660.7	660.6	660.5	660.5
660.4	660.3	660.2	660.1	660.0	659.9	659.8	659.7	659.6	659.5
659.4	659.3	659.2	659.2	659.1	659.1	659.0	659.0	658.9	658.9
658.8	658.8	658.8	658.7	658.7	658.6	658.6	658.6	658.5	658.5
658.5	658.4	658.4	658.4	658.4	658.3	658.3	658.3	658.3	658.3
658.2	658.2	658.2	658.2	658.2	658.1	658.1	658.1	658.1	658.1
658.1	658.1	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0
658.0	658.0	657.9	657.9	657.9	657.9	657.9	657.9		

PEAK OUTFLOW IS 3416. AT TIME 16.42 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	3416.	1538.	442.	442.	127261.
CMS	97.	44.	13.	13.	3604.
INCHES		9.47	10.89	10.89	10.89
MM		240.66	276.57	276.57	276.57
AC-FT		743.	876.	876.	876.
THOUS CU M		941.	1081.	1081.	1081.

MAXIMUM STORAGE = 260.

STATION OUTING, PLAN 1, RATIO 5

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	2.	2.	2.
2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
3.	3.	3.	3.	3.	3.	4.	4.	4.	5.
5.	5.	5.	6.	6.	6.	7.	7.	7.	8.
8.	8.	9.	9.	10.	10.	11.	12.	13.	14.
16.	18.	21.	24.	28.	32.	36.	40.	44.	47.
50.	53.	56.	60.	62.	63.	65.	66.	68.	70.
71.	73.	74.	76.	77.	78.	80.	81.	83.	84.
85.	86.	88.	89.	90.	91.	93.	94.	95.	96.
97.	98.	99.	100.	101.	103.	104.	105.	106.	107.
108.	109.	110.	111.	112.	112.	113.	114.	115.	116.
117.	118.	119.	120.	120.	121.	122.	123.	124.	126.
128.	141.	170.	201.	234.	298.	431.	546.	647.	736.
816.	972.	1028.	1081.	1129.	1174.	1214.	1251.	1283.	1313.
1341.	1368.	1397.	1429.	1462.	1498.	1534.	1570.	1605.	1638.
1668.	1694.	1716.	1735.	1756.	1788.	1851.	1973.	2172.	2461.
2824.	3220.	3595.	3909.	4132.	4253.	4270.	4196.	4056.	3879.
3683.	3483.	3286.	3099.	2927.	2770.	2627.	2497.	2378.	2268.
2166.	2072.	1985.	1906.	1835.	1772.	1715.	1663.	1611.	1554.
1488.	1410.	1321.	1223.	1120.	1015.	837.	769.	704.	644.
587.	535.	487.	442.	401.	363.	329.	298.	272.	255.
250.	246.	241.	236.	232.	228.	224.	220.	216.	212.
208.	205.	202.	199.	195.	193.	190.	187.	185.	182.
180.	178.	175.	173.	171.	169.	168.	166.	164.	163.
161.	160.	158.	157.	156.	154.	153.	152.	151.	150.
149.	148.	147.	146.	145.	145.	144.	143.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	2.	2.	2.	3.	3.
3.	3.	3.	3.	3.	3.	3.	4.	4.	4.
4.	4.	4.	4.	5.	5.	5.	5.	5.	5.
6.	6.	6.	6.	6.	7.	7.	7.	8.	9.
10.	11.	12.	13.	14.	15.	17.	18.	20.	21.
22.	24.	26.	27.	29.	30.	32.	34.	35.	37.
39.	40.	42.	44.	45.	47.	49.	51.	53.	54.
56.	58.	60.	62.	63.	65.	67.	69.	71.	73.
74.	76.	78.	80.	82.	84.	86.	87.	89.	91.
93.	95.	97.	99.	100.	102.	104.	106.	108.	110.
112.	113.	115.	117.	119.	121.	123.	125.	128.	131.
135.	139.	144.	149.	154.	160.	164.	169.	172.	176.
178.	181.	183.	184.	186.	187.	189.	190.	191.	192.
193.	194.	195.	196.	197.	198.	199.	200.	201.	202.
213.	204.	205.	206.	206.	207.	209.	213.	220.	229.
241.	254.	266.	276.	283.	287.	288.	285.	281.	275.
269.	262.	256.	250.	244.	239.	234.	230.	226.	223.
219.	216.	214.	211.	209.	207.	205.	203.	201.	200.
197.	195.	192.	189.	186.	182.	179.	177.	174.	172.
170.	168.	166.	165.	163.	162.	161.	160.	159.	158.
157.	156.	156.	155.	154.	153.	153.	152.	152.	151.
150.	150.	149.	149.	148.	148.	147.	147.	147.	146.
146.	145.	145.	145.	144.	144.	144.	144.	143.	143.
143.	143.	142.	142.	142.	142.	141.	141.	141.	141.
141.	141.	140.	140.	140.	140.	140.	140.		

STAGE

650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4
650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4
650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.5	650.5	650.5
650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5
650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.8	650.8	650.9
650.9	651.0	651.0	651.1	651.2	651.3	651.3	651.4	651.5	651.6
651.7	651.9	651.9	652.0	652.1	652.2	652.3	652.4	652.5	652.6
652.7	652.8	652.9	653.0	653.1	653.2	653.3	653.4	653.5	653.6
653.7	653.8	653.9	654.0	654.1	654.2	654.3	654.4	654.5	654.6
654.7	654.8	654.9	655.0	655.1	655.2	655.3	655.4	655.5	655.6
655.7	655.9	655.9	656.0	656.1	656.2	656.3	656.4	656.5	656.6
656.7	656.8	656.9	657.0	657.1	657.2	657.3	657.4	657.5	657.7
657.9	658.1	658.3	658.6	658.8	659.1	659.3	659.5	659.7	659.8
660.0	660.1	660.2	660.2	660.3	660.4	660.4	660.5	660.5	660.6
660.6	660.7	660.7	660.8	660.8	660.9	660.9	661.0	661.0	661.1
661.1	661.2	661.2	661.2	661.2	661.3	661.4	661.6	661.9	662.3
662.8	663.4	664.0	664.5	664.8	665.0	665.0	664.9	664.7	664.4
664.1	663.8	663.5	663.3	663.0	662.8	662.5	662.4	662.2	662.0
661.9	661.7	661.6	661.5	661.4	661.3	661.2	661.1	661.0	660.9
660.8	660.7	660.6	660.4	660.3	660.1	660.0	659.9	659.8	659.7
659.6	659.5	659.4	659.3	659.2	659.2	659.1	659.1	659.0	659.0
658.9	658.9	658.9	658.8	658.8	658.8	658.7	658.7	658.7	658.6
658.6	658.6	658.5	658.5	658.5	658.5	658.5	658.5	658.4	658.4
658.4	658.4	658.4	658.3	658.3	658.3	658.3	658.3	658.3	658.3
658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2	658.2
658.2	658.1	658.1	658.1	658.1	658.1	658.1	658.1		

PEAK OUTFLOW IS 4270. AT TIME 16.42 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	4270.	1978.	567.	567.	163388.
CMS	121.	56.	16.	16.	4627.
INCHES		12.19	13.98	13.98	13.98
MM		309.55	355.09	355.09	355.09
AC-FT		981.	1125.	1125.	1125.
THOUS CU M		1210.	1388.	1388.	1388.

MAXIMUM STORAGE = 288.

STATION OUTING, PLAN 1, RATIO 6

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	2.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	3.	3.	3.	3.	3.	3.	3.	4.
4.	4.	5.	5.	5.	5.	6.	6.	7.	7.
7.	8.	8.	9.	9.	10.	10.	11.	11.	12.
12.	13.	14.	14.	15.	15.	16.	17.	17.	18.
18.	19.	20.	21.	22.	24.	26.	29.	32.	36.
41.	46.	50.	55.	60.	63.	65.	68.	71.	73.
76.	79.	81.	84.	86.	89.	91.	93.	95.	98.
100.	102.	104.	106.	108.	110.	112.	114.	116.	118.
120.	122.	123.	125.	127.	130.	153.	177.	200.	222.
243.	283.	362.	427.	482.	527.	565.	597.	623.	645.
664.	680.	694.	705.	715.	723.	731.	737.	742.	747.
751.	755.	758.	761.	765.	771.	788.	809.	930.	981.
1054.	1145.	1249.	1361.	1474.	1584.	1687.	1784.	1874.	1959.
2041.	2122.	2201.	2278.	2353.	2424.	2490.	2551.	2607.	2658.
2708.	2754.	2812.	2871.	2936.	3005.	3076.	3147.	3215.	3280.
3339.	3390.	3434.	3472.	3513.	3577.	3704.	3946.	4344.	4922.
5649.	6440.	7191.	7817.	8264.	8505.	8540.	8391.	8113.	7758.
7366.	6965.	6572.	6198.	5854.	5540.	5254.	4994.	4755.	4536.
4332.	4144.	3971.	3813.	3671.	3544.	3431.	3326.	3222.	3108.
2976.	2820.	2662.	2447.	2240.	2030.	1831.	1650.	1486.	1338.
1204.	1083.	973.	800.	733.	669.	610.	557.	512.	472.
438.	409.	385.	363.	346.	330.	317.	307.	297.	290.
283.	278.	273.	270.	267.	264.	262.	260.	259.	258.
257.	257.	257.	256.	256.	256.	256.	256.	256.	256.
255.	255.	255.	255.	255.	255.	255.	255.	255.	254.
254.	254.	254.	254.	254.	254.	254.	254.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
3.	3.	3.	3.	3.	3.	3.	3.	3.	4.
4.	4.	4.	4.	4.	4.	5.	5.	5.	5.
5.	6.	6.	6.	6.	6.	7.	7.	7.	8.
8.	8.	8.	9.	9.	9.	10.	10.	10.	10.
11.	11.	11.	12.	12.	13.	13.	14.	16.	17.
19.	20.	23.	25.	27.	30.	33.	35.	38.	41.
44.	48.	51.	54.	58.	61.	65.	68.	72.	75.
79.	83.	87.	90.	94.	98.	102.	106.	110.	114.
118.	121.	125.	129.	133.	138.	141.	145.	149.	153.
156.	159.	162.	164.	166.	168.	169.	170.	171.	172.

173.	173.	174.	174.	175.	175.	175.	176.	176.	176.
176.	176.	176.	176.	177.	177.	177.	178.	179.	181.
183.	186.	190.	193.	197.	201.	204.	207.	210.	213.
215.	218.	221.	223.	226.	228.	230.	232.	234.	235.
237.	239.	240.	242.	244.	247.	249.	251.	254.	256.
259.	259.	261.	262.	263.	265.	269.	277.	290.	309.
333.	358.	383.	403.	418.	425.	426.	422.	413.	401.
388.	375.	363.	350.	339.	329.	320.	311.	304.	296.
290.	284.	278.	273.	268.	264.	261.	257.	254.	250.
246.	241.	235.	229.	222.	215.	209.	203.	197.	193.
188.	184.	181.	178.	175.	173.	171.	169.	167.	166.
165.	164.	163.	162.	161.	161.	160.	160.	160.	159.
159.	159.	159.	159.	159.	158.	158.	158.	158.	158.
158.	158.	158.	158.	158.	158.	158.	158.	158.	158.
158.	158.	158.	158.	158.	158.	158.	158.	158.	158.
158.	158.	158.	158.	158.	158.	158.	158.		

STAGE

650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
650.3	650.3	650.3	650.4	650.4	650.4	650.4	650.4	650.4	650.4
650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.4	650.5	650.5
650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5	650.5
650.5	650.5	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
650.6	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.8	650.8
650.8	650.8	650.8	650.8	650.9	650.9	650.9	650.9	650.9	651.0
651.0	651.0	651.0	651.0	651.1	651.1	651.1	651.2	651.3	651.4
651.5	651.6	651.7	651.8	652.0	652.1	652.3	652.5	652.6	652.8
653.0	653.2	653.4	653.6	653.8	654.0	654.2	654.4	654.6	654.8
655.0	655.2	655.4	655.6	655.8	656.0	656.2	656.4	656.6	656.8
657.0	657.2	657.4	657.6	657.8	658.0	658.2	658.4	658.5	658.7
658.9	659.0	659.2	659.3	659.4	659.5	659.5	659.6	659.6	659.7
659.7	659.7	659.8	659.8	659.8	659.8	659.8	659.8	659.8	659.9
659.8	659.9	659.9	659.9	659.9	659.9	659.9	659.9	660.0	660.1
660.2	660.3	660.5	660.7	660.8	661.0	661.1	661.3	661.4	661.5
661.7	661.8	661.9	662.0	662.1	662.2	662.3	662.4	662.5	662.6
662.7	662.7	662.8	662.9	663.0	663.1	663.2	663.3	663.4	663.5
663.6	663.7	663.8	663.8	663.9	664.0	664.2	664.5	665.1	666.0
667.1	668.3	669.4	670.3	671.0	671.3	671.4	671.2	670.8	670.2
669.6	669.0	668.5	667.9	667.4	666.9	666.5	666.1	665.7	665.4
665.1	664.8	664.6	664.3	664.1	663.9	663.7	663.6	663.4	663.3
663.1	662.8	662.6	662.3	662.0	661.7	661.4	661.1	660.8	660.6
660.4	660.2	660.1	659.9	659.8	659.7	659.6	659.5	659.4	659.4
659.3	659.3	659.2	659.2	659.2	659.1	659.1	659.1	659.1	659.1
659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0		

PEAK OUTFLOW IS 8540. AT TIME 16.42 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	8540.	4005.	1196.	1196.	344476.
CMS	242.	113.	34.	34.	9754.
INCHES		24.67	29.47	29.47	29.47
MM		626.65	748.64	748.64	748.64
AC-FT		1986.	2372.	2372.	2372.
THOUS CU M		2449.	2926.	2926.	2926.

MAXIMUM STORAGE = 426.

********** ********** ********** ********** **********

SUB-AREA RUNOFF COMPUTATION

SUBAREA RUNOFF FOR LAKE ROBINHOOD

ISTAO	ICOMP	IECON	ITAPE	JPLT	JPRT	INAME	ISTAGE	IAUTO
INFLOW	0	-0	-0	1	3	1	-0	-0

HYDROGRAPH DATA

IHYDG	IUHG	TAREA	SNAP	TRSDA	TRSPC	RATIO	ISNOW	ISAME	LOCAL
1	2	.72	-0.00	.72	1.00	-0.000	-0	1	-0

PRECIP DATA

SPFE	PMS	R6	R12	R24	R48	R72	R96
-0.00	26.00	100.00	120.00	130.00	-0.00	-0.00	-0.00

LOSS DATA

LROPT	STRKR	DLTKR	RTIOL	ERAIN	STRKS	RTIOK	STRTL	CNSTL	ALSMX	RTIMP
-0	-0.00	-0.00	1.00	-0.00	-0.00	1.00	-1.00	-82.00	-0.00	.10

CURVE NO = -82.00 WETNESS = -1.00 EFFECT CN = 82.00

UNIT HYDROGRAPH DATA

TC= -0.00 LAG= .45

RECESSION DATA

STRTQ= 1.44 QRCSN= -.10 RTIOR= 3.00

UNIT HYDROGRAPH 29 END OF PERIOD ORDINATES, TC= -0.00 HOURS, LAG= .45 VOL= 1.00

56.	148.	344.	556.	678.	707.	664.	577.	460.	329.	
249.	189.	146.	110.	84.	64.	48.	36.	28.	21.	
16.	12.	9.	7.	6.	4.	3.	2.	1.		

0 END-OF-PERIOD FLOW

MO.DA	HR.MN	PERIOD	RAIN	EXCS	LOSS	COMP Q	MO.DA	HR.MN	PERIOD	RAIN	EXCS	LOSS	COMP Q
1.01	.05	1	.01	.00	.01	1.	1.01	12.05	145	.22	.20	.01	379.
1.01	.10	2	.01	.00	.01	1.	1.01	12.10	146	.22	.20	.01	403.
1.01	.15	3	.01	.00	.01	2.	1.01	12.15	147	.22	.20	.01	450.
1.01	.20	4	.01	.00	.01	3.	1.01	12.20	148	.22	.20	.01	526.
1.01	.25	5	.01	.00	.01	3.	1.01	12.25	149	.22	.20	.01	618.
1.01	.30	6	.01	.00	.01	4.	1.01	12.30	150	.22	.21	.01	715.
1.01	.35	7	.01	.00	.01	5.	1.01	12.35	151	.22	.21	.01	807.
1.01	.40	8	.01	.00	.01	6.	1.01	12.40	152	.22	.21	.01	887.
1.01	.45	9	.01	.00	.01	7.	1.01	12.45	153	.22	.21	.01	952.
1.01	.50	10	.01	.00	.01	7.	1.01	12.50	154	.22	.21	.01	999.
1.01	.55	11	.01	.00	.01	7.	1.01	12.55	155	.22	.21	.01	1035.
1.01	1.00	12	.01	.00	.01	8.	1.01	13.00	156	.22	.21	.01	1063.
1.01	1.05	13	.01	.00	.01	8.	1.01	13.05	157	.26	.25	.01	1088.
1.01	1.10	14	.01	.00	.01	8.	1.01	13.10	158	.26	.25	.01	1112.
1.01	1.15	15	.01	.00	.01	8.	1.01	13.15	159	.26	.25	.01	1140.
1.01	1.20	16	.01	.00	.01	8.	1.01	13.20	160	.26	.25	.01	1174.
1.01	1.25	17	.01	.00	.01	8.	1.01	13.25	161	.26	.25	.01	1211.
1.01	1.30	18	.01	.00	.01	8.	1.01	13.30	162	.26	.25	.01	1248.
1.01	1.35	19	.01	.00	.01	8.	1.01	13.35	163	.26	.25	.01	1282.
1.01	1.40	20	.01	.00	.01	8.	1.01	13.40	164	.26	.25	.01	1311.
1.01	1.45	21	.01	.00	.01	8.	1.01	13.45	165	.26	.25	.01	1335.
1.01	1.50	22	.01	.00	.01	8.	1.01	13.50	166	.26	.25	.01	1352.
1.01	1.55	23	.01	.00	.01	8.	1.01	13.55	167	.26	.25	.01	1366.
1.01	2.00	24	.01	.00	.01	8.	1.01	14.00	168	.26	.25	.01	1377.
1.01	2.05	25	.01	.00	.01	8.	1.01	14.05	169	.32	.32	.01	1389.

1.01	2.10	26	.01	.00	.01	8.	1.01	14.10	170	.32	.32	.01	1406.
1.01	2.15	27	.01	.00	.01	8.	1.01	14.15	171	.32	.32	.01	1434.
1.01	2.20	28	.01	.00	.01	8.	1.01	14.20	172	.32	.32	.01	1474.
1.01	2.25	29	.01	.00	.01	8.	1.01	14.25	173	.32	.32	.01	1521.
1.01	2.30	30	.01	.00	.01	8.	1.01	14.30	174	.32	.32	.01	1569.
1.01	2.35	31	.01	.00	.01	8.	1.01	14.35	175	.32	.32	.01	1614.
1.01	2.40	32	.01	.00	.01	8.	1.01	14.40	176	.32	.32	.01	1653.
1.01	2.45	33	.01	.00	.01	8.	1.01	14.45	177	.32	.32	.01	1684.
1.01	2.50	34	.01	.00	.01	8.	1.01	14.50	178	.32	.32	.00	1707.
1.01	2.55	35	.01	.00	.01	8.	1.01	14.55	179	.32	.32	.00	1725.
1.01	3.00	36	.01	.00	.01	9.	1.01	15.00	180	.32	.32	.00	1739.
1.01	3.05	37	.01	.00	.01	9.	1.01	15.05	181	.20	.19	.00	1742.
1.01	3.10	38	.01	.00	.01	10.	1.01	15.10	182	.40	.39	.01	1741.
1.01	3.15	39	.01	.00	.01	10.	1.01	15.15	183	.40	.39	.01	1737.
1.01	3.20	40	.01	.00	.01	11.	1.01	15.20	184	.59	.59	.01	1750.
1.01	3.25	41	.01	.00	.01	12.	1.01	15.25	185	.69	.68	.01	1816.
1.01	3.30	42	.01	.00	.01	12.	1.01	15.30	186	1.68	1.66	.02	2001.
1.01	3.35	43	.01	.00	.01	13.	1.01	15.35	187	2.77	2.74	.02	2424.
1.01	3.40	44	.01	.00	.01	14.	1.01	15.40	188	1.09	1.08	.01	3096.
1.01	3.45	45	.01	.00	.01	15.	1.01	15.45	189	.69	.69	.00	3972.
1.01	3.50	46	.01	.00	.01	16.	1.01	15.50	190	.59	.59	.00	4841.
1.01	3.55	47	.01	.00	.01	16.	1.01	15.55	191	.40	.39	.00	5391.
1.01	4.00	48	.01	.00	.01	17.	1.01	16.00	192	.40	.39	.00	5563.
1.01	4.05	49	.01	.00	.01	18.	1.01	16.05	193	.30	.30	.00	5405.
1.01	4.10	50	.01	.00	.01	19.	1.01	16.10	194	.30	.30	.00	5002.
1.01	4.15	51	.01	.00	.01	19.	1.01	16.15	195	.30	.30	.00	4439.
1.01	4.20	52	.01	.00	.01	20.	1.01	16.20	196	.30	.30	.00	3848.
1.01	4.25	53	.01	.00	.01	21.	1.01	16.25	197	.30	.30	.00	3368.
1.01	4.30	54	.01	.00	.01	21.	1.01	16.30	198	.30	.30	.00	2982.
1.01	4.35	55	.01	.00	.01	22.	1.01	16.35	199	.30	.30	.00	2675.
1.01	4.40	56	.01	.00	.01	23.	1.01	16.40	200	.30	.30	.00	2436.
1.01	4.45	57	.01	.00	.01	23.	1.01	16.45	201	.30	.30	.00	2254.
1.01	4.50	58	.01	.01	.01	24.	1.01	16.50	202	.30	.30	.00	2117.
1.01	4.55	59	.01	.01	.01	25.	1.01	16.55	203	.30	.30	.00	2011.
1.01	5.00	60	.01	.01	.01	25.	1.01	17.00	204	.30	.30	.00	1931.
1.01	5.05	61	.01	.01	.01	26.	1.01	17.05	205	.24	.24	.00	1867.
1.01	5.10	62	.01	.01	.01	27.	1.01	17.10	206	.24	.24	.00	1811.
1.01	5.15	63	.01	.01	.01	27.	1.01	17.15	207	.24	.24	.00	1755.
1.01	5.20	64	.01	.01	.01	28.	1.01	17.20	208	.24	.24	.00	1693.
1.01	5.25	65	.01	.01	.01	28.	1.01	17.25	209	.24	.24	.00	1629.
1.01	5.30	66	.01	.01	.01	29.	1.01	17.30	210	.24	.24	.00	1569.
1.01	5.35	67	.01	.01	.01	30.	1.01	17.35	211	.24	.24	.00	1515.
1.01	5.40	68	.01	.01	.01	30.	1.01	17.40	212	.24	.24	.00	1468.
1.01	5.45	69	.01	.01	.01	31.	1.01	17.45	213	.24	.24	.00	1430.
1.01	5.50	70	.01	.01	.01	31.	1.01	17.50	214	.24	.24	.00	1402.
1.01	5.55	71	.01	.01	.01	32.	1.01	17.55	215	.24	.24	.00	1380.
1.01	6.00	72	.01	.01	.01	32.	1.01	18.00	216	.24	.24	.00	1364.
1.01	6.05	73	.07	.03	.04	34.	1.01	18.05	217	.02	.02	.00	1341.
1.01	6.10	74	.07	.04	.04	39.	1.01	18.10	218	.02	.02	.00	1297.
1.01	6.15	75	.07	.04	.04	49.	1.01	18.15	219	.02	.02	.00	1217.
1.01	6.20	76	.07	.04	.03	66.	1.01	18.20	220	.02	.02	.00	1093.
1.01	6.25	77	.07	.04	.03	86.	1.01	18.25	221	.02	.02	.00	944.
1.01	6.30	78	.07	.04	.03	109.	1.01	18.30	222	.02	.02	.00	789.
1.01	6.35	79	.07	.04	.03	131.	1.01	18.35	223	.02	.02	.00	644.
1.01	6.40	80	.07	.04	.03	152.	1.01	18.40	224	.02	.02	.00	539.
1.01	6.45	81	.07	.05	.03	170.	1.01	18.45	225	.02	.02	.00	483.
1.01	6.50	82	.07	.05	.03	186.	1.01	18.50	226	.02	.02	.00	432.
1.01	6.55	83	.07	.05	.02	199.	1.01	18.55	227	.02	.02	.00	387.
1.01	7.00	84	.07	.05	.02	211.	1.01	19.00	228	.02	.02	.00	347.
1.01	7.05	85	.07	.05	.02	222.	1.01	19.05	229	.02	.02	.00	311.
1.01	7.10	86	.07	.05	.02	231.	1.01	19.10	230	.02	.02	.00	279.
1.01	7.15	87	.07	.05	.02	240.	1.01	19.15	231	.02	.02	.00	250.
1.01	7.20	88	.07	.05	.02	248.	1.01	19.20	232	.02	.02	.00	224.
1.01	7.25	89	.07	.05	.02	255.	1.01	19.25	233	.02	.02	.00	200.

1.01	7.30	90	.07	.05	.02	261.	1.01	19.30	234	.02	.02	.00	180.
1.01	7.35	91	.07	.05	.02	267.	1.01	19.35	235	.02	.02	.00	161.
1.01	7.40	92	.07	.05	.02	273.	1.01	19.40	236	.02	.02	.00	144.
1.01	7.45	93	.07	.06	.02	278.	1.01	19.45	237	.02	.02	.00	130.
1.01	7.50	94	.07	.06	.02	283.	1.01	19.50	238	.02	.02	.00	127.
1.01	7.55	95	.07	.06	.02	288.	1.01	19.55	239	.02	.02	.00	125.
1.01	8.00	96	.07	.06	.02	292.	1.01	20.00	240	.02	.02	.00	124.
1.01	8.05	97	.07	.06	.02	296.	1.01	20.05	241	.02	.02	.00	122.
1.01	8.10	98	.07	.06	.01	300.	1.01	20.10	242	.02	.02	.00	121.
1.01	8.15	99	.07	.06	.01	303.	1.01	20.15	243	.02	.02	.00	121.
1.01	8.20	100	.07	.06	.01	307.	1.01	20.20	244	.02	.02	.00	120.
1.01	8.25	101	.07	.06	.01	310.	1.01	20.25	245	.02	.02	.00	120.
1.01	8.30	102	.07	.06	.01	313.	1.01	20.30	246	.02	.02	.00	120.
1.01	8.35	103	.07	.06	.01	316.	1.01	20.35	247	.02	.02	.00	120.
1.01	8.40	104	.07	.06	.01	319.	1.01	20.40	248	.02	.02	.00	120.
1.01	8.45	105	.07	.06	.01	321.	1.01	20.45	249	.02	.02	.00	120.
1.01	8.50	106	.07	.06	.01	324.	1.01	20.50	250	.02	.02	.00	120.
1.01	8.55	107	.07	.06	.01	326.	1.01	20.55	251	.02	.02	.00	120.
1.01	9.00	108	.07	.06	.01	328.	1.01	21.00	252	.02	.02	.00	120.
1.01	9.05	109	.07	.06	.01	331.	1.01	21.05	253	.02	.02	.00	120.
1.01	9.10	110	.07	.06	.01	333.	1.01	21.10	254	.02	.02	.00	120.
1.01	9.15	111	.07	.06	.01	335.	1.01	21.15	255	.02	.02	.00	120.
1.01	9.20	112	.07	.06	.01	337.	1.01	21.20	256	.02	.02	.00	120.
1.01	9.25	113	.07	.06	.01	338.	1.01	21.25	257	.02	.02	.00	120.
1.01	9.30	114	.07	.06	.01	340.	1.01	21.30	258	.02	.02	.00	120.
1.01	9.35	115	.07	.06	.01	342.	1.01	21.35	259	.02	.02	.00	120.
1.01	9.40	116	.07	.06	.01	343.	1.01	21.40	260	.02	.02	.00	120.
1.01	9.45	117	.07	.06	.01	345.	1.01	21.45	261	.02	.02	.00	120.
1.01	9.50	118	.07	.06	.01	346.	1.01	21.50	262	.02	.02	.00	120.
1.01	9.55	119	.07	.06	.01	348.	1.01	21.55	263	.02	.02	.00	120.
1.01	10.00	120	.07	.06	.01	349.	1.01	22.00	264	.02	.02	.00	120.
1.01	10.05	121	.07	.06	.01	351.	1.01	22.05	265	.02	.02	.00	120.
1.01	10.10	122	.07	.06	.01	352.	1.01	22.10	266	.02	.02	.00	120.
1.01	10.15	123	.07	.06	.01	353.	1.01	22.15	267	.02	.02	.00	120.
1.01	10.20	124	.07	.06	.01	354.	1.01	22.20	268	.02	.02	.00	120.
1.01	10.25	125	.07	.07	.01	355.	1.01	22.25	269	.02	.02	.00	120.
1.01	10.30	126	.07	.07	.01	356.	1.01	22.30	270	.02	.02	.00	120.
1.01	10.35	127	.07	.07	.01	358.	1.01	22.35	271	.02	.02	.00	120.
1.01	10.40	128	.07	.07	.01	359.	1.01	22.40	272	.02	.02	.00	120.
1.01	10.45	129	.07	.07	.01	360.	1.01	22.45	273	.02	.02	.00	120.
1.01	10.50	130	.07	.07	.01	361.	1.01	22.50	274	.02	.02	.00	120.
1.01	10.55	131	.07	.07	.01	361.	1.01	22.55	275	.02	.02	.00	120.
1.01	11.00	132	.07	.07	.01	362.	1.01	23.00	276	.02	.02	.00	120.
1.01	11.05	133	.07	.07	.01	363.	1.01	23.05	277	.02	.02	.00	120.
1.01	11.10	134	.07	.07	.01	364.	1.01	23.10	278	.02	.02	.00	120.
1.01	11.15	135	.07	.07	.01	365.	1.01	23.15	279	.02	.02	.00	120.
1.01	11.20	136	.07	.07	.01	366.	1.01	23.20	280	.02	.02	.00	120.
1.01	11.25	137	.07	.07	.01	366.	1.01	23.25	281	.02	.02	.00	120.
1.01	11.30	138	.07	.07	.01	367.	1.01	23.30	282	.02	.02	.00	120.
1.01	11.35	139	.07	.07	.01	368.	1.01	23.35	283	.02	.02	.00	120.
1.01	11.40	140	.07	.07	.01	369.	1.01	23.40	284	.02	.02	.00	120.
1.01	11.45	141	.07	.07	.01	369.	1.01	23.45	285	.02	.02	.00	120.
1.01	11.50	142	.07	.07	.01	370.	1.01	23.50	286	.02	.02	.00	120.
1.01	11.55	143	.07	.07	.01	371.	1.01	23.55	287	.02	.02	.00	120.
1.01	12.00	144	.07	.07	.00	371.	1.02	0.00	288	.02	.02	.00	120.
									SUM	33.80	31.55	2.25	175826.
										(859.)	(801.)	(57.)	(4978.84)

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	5563.	1941.	610.	610.	175780.
CMS	158.	55.	17.	17.	4978.

INCHES	25.07	31.54	31.54	31.54
MM	636.83	801.18	801.18	801.18
AC-FT	962.	1211.	1211.	1211.
THOUS CU M	1187.	1493.	1493.	1493.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 1

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	556.	194.	61.	61.	17578.
CMS	16.	5.	2.	2.	498.
INCHES		2.51	3.15	3.15	3.15
MM		63.68	80.12	80.12	80.12
AC-FT		96.	121.	121.	121.
THOUS CU M		119.	149.	149.	149.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 2

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1113.	388.	122.	122.	35156.
CMS	32.	11.	3.	3.	996.
INCHES		5.01	6.31	6.31	6.31
MM		127.37	160.24	160.24	160.24
AC-FT		192.	242.	242.	242.
THOUS CU M		237.	299.	299.	299.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 3

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1669.	582.	183.	183.	52734.
CMS	47.	16.	5.	5.	1493.
INCHES		7.52	9.46	9.46	9.46
MM		191.05	240.35	240.35	240.35
AC-FT		289.	363.	363.	363.
THOUS CU M		356.	448.	448.	448.

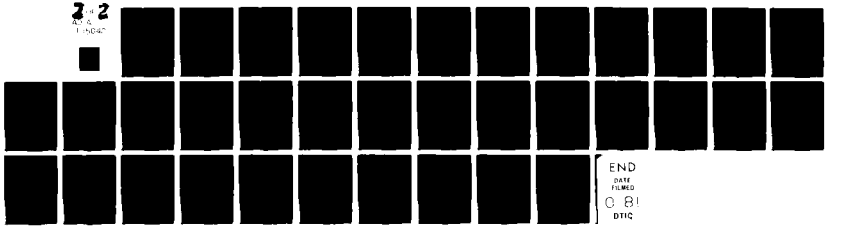
HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 4

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	2225.	776.	244.	244.	70312.
CMS	63.	22.	7.	7.	1991.
INCHES		10.03	12.62	12.62	12.62
MM		254.73	320.47	320.47	320.47
AC-FT		385.	484.	484.	484.
THOUS CU M		475.	597.	597.	597.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 5

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	2782.	970.	305.	305.	87890.
CMS	79.	27.	9.	9.	2489.
INCHES		12.54	15.77	15.77	15.77
MM		318.42	400.59	400.59	400.59
AC-FT		481.	605.	605.	605.
THOUS CU M		593.	747.	747.	747.

AD-A105 042 BALK (KENNETH) AND ASSOCIATES INC ST LOUIS MO F/G 13/13
NATIONAL DAM SAFETY PROGRAM. LAKE SHERWOOD DAM (MO 10202), UPPE--ETC(U)
JAN 79 E H BAUMEYER, L KUNZE DACW43-78-C-0169
UNCLASSIFIED NL



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HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 6

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	5563.	1941.	610.	610.	175780.
CMS	158.	55.	17.	17.	4978.
INCHES		25.07	31.54	31.54	31.54
MM		636.83	801.18	801.18	801.18
AC-FT		962.	1211.	1211.	1211.
THOUS CU M		1187.	1493.	1493.	1493.

********** ********** ********** ********** **********

HYDROGRAPH ROUTING

RESERVOIR ROUTING FOR LAKE ROBINHOOD

ISTAQ	ICOMP	IECON	ITAPE	JPLT	JPRT	INAME	ISTAGE	IAUTO
OUTING	1	-0	-0	1	3	1	-0	-0

ROUTING DATA

QLOSS	CLOSS	AVG	IRES	ISAME	IOPT	IPMP	LSTR
-0.0	-0.000	-0.00	1	1	-0	-0	-0

NSTPS	NSTDL	LAG	AMSKK	X	TSK	STORA	ISPRAT
1	-0	-0	-0.000	-0.000	-0.000	-648.	-1

STAGE	648.1	649.0	650.0	651.0	652.0	653.0	654.0	655.0	656.0	657.0
	658.0	659.0	660.0	661.0	662.0					
FLOW	0.	3.	11.	23.	33.	41.	48.	55.	83.	189.
	371.	871.	1579.	2287.	2995.					
CAPACITY=	0.	9.	17.	26.	36.	46.	56.	67.	78.	90.
	102.	114.	127.	140.	154.					
ELEVATION=	648.	649.	650.	651.	652.	653.	654.	655.	656.	657.
	658.	659.	660.	661.	662.					

CREL	SPWID	COQW	EXPW	ELEVL	COOL	CAREA	EXPL
648.1	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0

DAM DATA

TOPEL	COQD	EXPD	DAMWID
655.2	-0.0	-0.0	-0.

STATION OUTING, PLAN 1, RATIO 1

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	1.	1.	1.	1.	1.	1.	1.

1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	3.	3.	3.	3.	3.
3.	3.	4.	4.	4.	4.	4.	5.	5.	5.
5.	5.	5.	6.	6.	6.	6.	6.	7.	7.
7.	7.	7.	8.	8.	8.	8.	8.	9.	9.
9.	10.	10.	11.	12.	13.	14.	14.	15.	16.
17.	18.	19.	20.	21.	22.	23.	24.	25.	26.
26.	27.	28.	29.	30.	31.	32.	33.	34.	35.
36.	36.	37.	38.	39.	40.	41.	42.	43.	45.
47.	49.	51.	53.	56.	62.	67.	71.	75.	78.
81.	85.	92.	99.	104.	109.	113.	117.	120.	122.
124.	126.	127.	128.	129.	129.	130.	130.	129.	129.
127.	124.	121.	117.	113.	109.	105.	101.	97.	92.
88.	84.	82.	81.	80.	79.	78.	77.	75.	74.
73.	72.	71.	70.	69.	68.	67.	66.	65.	65.
64.	63.	62.	61.	60.	59.	59.	58.	57.	56.
55.	55.	54.	54.	54.	54.	54.	54.	53.	53.
53.	53.	53.	53.	53.	52.	52.	52.	52.	52.
52.	51.	51.	51.	51.	51.	51.	50.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	2.	2.	2.	2.	2.	2.	3.
3.	3.	3.	3.	3.	4.	4.	4.	4.	4.
5.	5.	5.	5.	5.	6.	6.	6.	6.	6.
7.	7.	7.	7.	8.	8.	8.	8.	8.	9.
9.	9.	9.	10.	10.	10.	10.	10.	11.	11.
11.	11.	11.	12.	12.	12.	12.	13.	13.	13.
13.	13.	14.	14.	14.	14.	14.	15.	15.	15.
16.	16.	17.	18.	18.	19.	19.	20.	21.	22.
22.	23.	24.	24.	25.	26.	27.	28.	28.	29.
30.	31.	32.	32.	33.	34.	35.	36.	37.	38.
39.	40.	41.	42.	43.	44.	45.	47.	49.	52.
55.	58.	62.	65.	68.	70.	72.	74.	75.	77.
78.	79.	79.	80.	81.	81.	82.	82.	82.	83.
83.	83.	83.	83.	83.	83.	83.	83.	83.	83.
83.	83.	83.	82.	82.	81.	81.	80.	80.	79.
79.	79.	78.	78.	77.	77.	76.	76.	76.	75.
75.	74.	74.	73.	73.	73.	72.	72.	72.	71.
71.	70.	70.	70.	69.	69.	69.	68.	68.	68.
68.	67.	67.	67.	66.	66.	66.	66.	65.	65.
65.	64.	64.	64.	64.	63.	63.	63.	62.	62.
62.	62.	61.	61.	61.	61.	60.	60.		

STAGE

648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.2	648.2	648.2	648.2
648.2	648.2	648.2	648.2	648.3	648.3	648.3	648.3	648.3	648.3
648.4	648.4	648.4	648.4	648.4	648.5	648.5	648.5	648.5	648.6

648.6	648.6	648.6	648.6	648.7	648.7	648.7	648.7	648.8	648.8
648.8	648.8	648.9	648.9	648.9	648.9	648.9	649.0	649.0	649.0
649.0	649.1	649.1	649.1	649.1	649.2	649.2	649.2	649.2	649.3
649.3	649.3	649.3	649.4	649.4	649.4	649.4	649.5	649.5	649.5
649.5	649.6	649.6	649.6	649.6	649.6	649.7	649.7	649.7	649.8
649.8	649.9	650.0	650.0	650.1	650.2	650.2	650.3	650.4	650.5
650.5	650.6	650.7	650.8	650.9	650.9	651.0	651.1	651.2	651.3
651.4	651.4	651.5	651.6	651.7	651.8	651.9	652.0	652.1	652.2
652.3	652.4	652.5	652.6	652.7	652.8	652.9	653.1	653.3	653.5
653.8	654.2	654.5	654.8	655.0	655.3	655.4	655.6	655.7	655.8
655.9	656.0	656.1	656.1	656.2	656.2	656.3	656.3	656.4	656.4
656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4
656.4	656.4	656.4	656.3	656.3	656.2	656.2	656.2	656.1	656.1
656.1	656.0	656.0	655.9	655.9	655.9	655.8	655.8	655.7	655.7
655.7	655.6	655.6	655.6	655.5	655.5	655.5	655.4	655.4	655.4
655.3	655.3	655.3	655.2	655.2	655.2	655.1	655.1	655.1	655.1
655.0	655.0	655.0	654.9	654.9	654.9	654.9	654.8	654.8	654.8
654.8	654.7	654.7	654.7	654.7	654.6	654.6	654.6	654.6	654.5
654.5	654.5	654.5	654.4	654.4	654.4	654.4	654.3		

PEAK OUTFLOW IS 130. AT TIME 18.17 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	130.	87.	31.	31.	8865.
CMS	4.	2.	1.	1.	251.
INCHES		1.12	1.59	1.59	1.59
MM		28.49	40.40	40.40	40.40
AC-FT		43.	61.	61.	61.
THOUS CU M		53.	75.	75.	75.

MAXIMUM STORAGE = 83.

STATION OUTING, PLAN 1, RATIO 2

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	2.	2.
2.	2.	2.	2.	2.	2.	3.	3.	3.	3.
3.	4.	4.	5.	5.	5.	6.	6.	6.	7.
7.	7.	8.	8.	9.	9.	9.	10.	10.	10.
11.	11.	12.	12.	13.	13.	14.	15.	15.	16.
16.	17.	17.	18.	18.	19.	19.	20.	20.	21.
21.	21.	22.	22.	23.	23.	24.	24.	25.	26.
27.	28.	29.	30.	31.	33.	34.	35.	36.	37.
38.	39.	41.	42.	43.	44.	45.	46.	47.	48.
49.	50.	51.	52.	53.	54.	58.	63.	67.	72.
77.	82.	95.	111.	126.	141.	160.	184.	233.	298.
371.	549.	684.	771.	814.	817.	794.	755.	709.	660.
613.	570.	531.	498.	469.	444.	423.	403.	386.	370.
364.	358.	351.	344.	338.	331.	325.	319.	312.	304.

294.	282.	268.	253.	238.	224.	209.	196.	185.	177.
170.	162.	155.	148.	141.	134.	127.	121.	115.	110.
104.	99.	95.	90.	86.	83.	82.	81.	80.	79.
78.	77.	76.	75.	74.	73.	73.	72.	71.	70.
69.	69.	68.	67.	66.	66.	65.	64.	63.	63.
62.	61.	61.	60.	60.	59.	58.	58.	57.	57.
56.	56.	55.	55.	54.	54.	54.	54.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	2.	2.	2.	2.	2.
2.	3.	3.	3.	3.	4.	4.	4.	5.	5.
5.	6.	6.	6.	7.	7.	8.	8.	8.	9.
9.	10.	10.	10.	11.	11.	12.	12.	12.	13.
13.	14.	14.	15.	15.	15.	16.	16.	17.	17.
17.	18.	18.	19.	19.	19.	20.	20.	21.	21.
21.	22.	22.	23.	23.	23.	24.	24.	24.	25.
25.	26.	26.	26.	27.	27.	27.	28.	29.	29.
30.	31.	32.	33.	34.	36.	37.	38.	40.	41.
42.	44.	45.	47.	48.	50.	51.	53.	54.	56.
58.	59.	61.	63.	65.	67.	68.	70.	72.	74.
76.	78.	80.	81.	83.	85.	87.	89.	93.	97.
102.	106.	109.	112.	113.	113.	112.	111.	110.	109.
108.	107.	106.	105.	104.	104.	103.	103.	102.	102.
101.	101.	100.	100.	100.	99.	99.	98.	98.	97.
97.	96.	95.	94.	93.	92.	91.	90.	90.	89.
88.	87.	86.	85.	85.	84.	83.	83.	82.	81.
81.	80.	80.	79.	79.	78.	78.	78.	77.	77.
76.	76.	76.	75.	75.	75.	74.	74.	74.	73.
73.	73.	72.	72.	72.	72.	71.	71.	71.	70.
70.	70.	70.	69.	69.	69.	69.	68.	68.	68.
68.	68.	67.	67.	67.	67.	67.	66.		

STAGE

648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.2	648.2	648.2	648.2	648.2
648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2
648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.3	648.3	648.3
648.3	648.4	648.4	648.4	648.4	648.5	648.5	648.5	648.6	648.6
648.7	648.7	648.7	648.8	648.8	648.9	648.9	648.9	649.0	649.0
649.1	649.1	649.2	649.2	649.3	649.3	649.4	649.4	649.5	649.5
649.5	649.6	649.6	649.7	649.7	649.8	649.8	649.9	649.9	650.0
650.0	650.1	650.1	650.1	650.2	650.2	650.3	650.3	650.4	650.4
650.4	650.5	650.5	650.6	650.6	650.7	650.7	650.7	650.8	650.8
650.9	650.9	650.9	651.0	651.0	651.0	651.1	651.1	651.2	651.3
651.4	651.5	651.6	651.7	651.8	652.0	652.1	652.2	652.3	652.5
652.6	652.8	652.9	653.1	653.2	653.4	653.5	653.7	653.8	654.0
654.1	654.3	654.4	654.6	654.8	654.9	655.1	655.3	655.5	655.6
655.8	656.0	656.1	656.3	656.4	656.6	656.7	657.0	657.2	657.6
658.0	658.4	658.6	658.8	658.9	658.9	658.8	658.8	658.7	658.6
658.5	658.4	658.3	658.3	658.2	658.1	658.1	658.1	658.0	658.0
658.0	657.9	657.9	657.9	657.8	657.8	657.7	657.7	657.7	657.6
657.6	657.5	657.4	657.4	657.3	657.2	657.1	657.0	657.0	656.9

656.8	656.7	656.7	656.6	656.5	656.5	656.4	656.4	656.3	656.3
656.2	656.2	656.1	656.1	656.0	656.0	656.0	655.9	655.9	655.9
655.8	655.8	655.8	655.7	655.7	655.7	655.6	655.6	655.6	655.6
655.5	655.5	655.5	655.4	655.4	655.4	655.4	655.3	655.3	655.3
655.3	655.2	655.2	655.2	655.2	655.2	655.1	655.1	655.1	655.1
655.1	655.0	655.0	655.0	655.0	655.0	654.9	654.9		

PEAK OUTFLOW IS 817. AT TIME 18.33 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	817.	295.	89.	89.	25536.
CMS	23.	8.	3.	3.	723.
INCHES		3.81	4.58	4.58	4.58
MM		96.76	116.39	116.39	116.39
AC-FT		146.	176.	176.	176.
THOUS CU M		180.	217.	217.	217.

MAXIMUM STORAGE = 113.

STATION OUTING, PLAN 1, RATIO 3

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	2.	2.	2.	2.	2.	2.	2.
3.	3.	3.	4.	4.	5.	5.	6.	6.	7.
7.	8.	9.	9.	10.	10.	11.	11.	12.	13.
14.	15.	15.	16.	17.	18.	19.	19.	20.	21.
22.	22.	23.	24.	24.	25.	25.	26.	27.	27.
28.	28.	29.	30.	30.	31.	31.	32.	33.	33.
34.	34.	34.	35.	35.	36.	36.	37.	38.	39.
40.	41.	42.	43.	45.	46.	47.	48.	50.	51.
52.	53.	54.	60.	65.	71.	77.	83.	103.	122.
141.	159.	177.	199.	226.	253.	278.	301.	322.	342.
360.	384.	418.	444.	466.	492.	534.	606.	718.	866.
1081.	1264.	1387.	1444.	1435.	1373.	1279.	1173.	1068.	970.
884.	825.	774.	729.	690.	656.	627.	600.	575.	552.
530.	510.	491.	475.	461.	449.	438.	428.	415.	398.
376.	361.	347.	330.	312.	294.	277.	261.	244.	229.
214.	199.	187.	179.	171.	163.	156.	149.	142.	135.
129.	124.	118.	113.	109.	104.	100.	96.	92.	89.
86.	83.	82.	81.	80.	80.	79.	78.	77.	77.
76.	75.	75.	74.	73.	73.	72.	71.	71.	70.
70.	69.	68.	68.	67.	67.	66.	66.	65.	65.
64.	64.	63.	63.	62.	62.	62.	61.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.

..	..	..	..	..	..	..	..	..	..
1.	1.	1.	1.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	2.	2.	3.	3.	3.
3.	4.	4.	5.	5.	6.	6.	7.	7.	8.
8.	9.	9.	10.	10.	11.	11.	12.	13.	13.
14.	14.	15.	16.	16.	17.	17.	18.	18.	19.
20.	20.	21.	21.	22.	23.	23.	24.	24.	25.
26.	26.	27.	27.	28.	28.	29.	30.	30.	31.
31.	32.	32.	33.	33.	34.	34.	35.	36.	36.
37.	37.	38.	38.	39.	39.	40.	41.	42.	43.
44.	46.	47.	49.	51.	53.	54.	56.	58.	60.
62.	65.	67.	69.	72.	74.	76.	78.	81.	83.
85.	87.	89.	91.	92.	94.	96.	97.	99.	100.
101.	102.	103.	104.	104.	105.	106.	108.	110.	114.
118.	121.	123.	124.	124.	123.	121.	119.	118.	116.
114.	113.	112.	111.	110.	109.	108.	107.	107.	106.
106.	105.	105.	104.	104.	104.	103.	103.	103.	102.
102.	101.	100.	99.	98.	97.	96.	95.	94.	93.
92.	91.	90.	89.	88.	87.	86.	86.	85.	84.
83.	83.	82.	82.	81.	81.	80.	80.	79.	79.
79.	78.	78.	78.	77.	77.	77.	77.	76.	76.
76.	75.	75.	75.	75.	74.	74.	74.	74.	73.
73.	73.	73.	73.	72.	72.	72.	72.	71.	71.
71.	71.	71.	71.	71.	70.	70.	70.		

STAGE

648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.2	648.2	648.2	648.2
648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2
648.2	648.2	648.2	648.2	648.2	648.2	648.3	648.3	648.3	648.3
648.3	648.3	648.3	648.3	648.3	648.3	648.3	648.4	648.4	648.4
648.5	648.5	648.5	648.6	648.6	648.7	648.7	648.8	648.8	648.9
649.0	649.0	649.1	649.1	649.2	649.3	649.3	649.4	649.5	649.5
649.6	649.7	649.7	649.8	649.9	649.9	650.0	650.1	650.1	650.2
650.3	650.3	650.4	650.5	650.5	650.6	650.6	650.7	650.8	650.8
650.9	651.0	651.0	651.1	651.1	651.2	651.3	651.3	651.4	651.4
651.5	651.5	651.6	651.7	651.7	651.8	651.8	651.9	651.9	652.0
652.1	652.1	652.2	652.2	652.3	652.3	652.4	652.5	652.6	652.7
652.8	652.9	653.1	653.3	653.4	653.6	653.8	654.0	654.2	654.4
654.6	654.9	655.0	655.2	655.4	655.6	655.8	656.0	656.2	656.4
656.6	656.7	656.9	657.1	657.2	657.4	657.5	657.6	657.7	657.8
657.9	658.0	658.1	658.1	658.2	658.2	658.3	658.5	658.7	659.0
659.3	659.6	659.7	659.8	659.8	659.7	659.6	659.4	659.3	659.1
659.0	658.9	658.8	658.7	658.6	658.6	658.5	658.5	658.4	658.4
658.3	658.3	658.2	658.2	658.2	658.2	658.1	658.1	658.1	658.1
658.0	657.9	657.9	657.8	657.7	657.6	657.5	657.4	657.3	657.2
657.1	657.1	657.0	656.9	656.8	656.8	656.7	656.6	656.6	656.5
656.4	656.4	656.3	656.3	656.2	656.2	656.2	656.1	656.1	656.1
656.0	656.0	656.0	655.9	655.9	655.9	655.9	655.8	655.8	655.8
655.8	655.7	655.7	655.7	655.7	655.6	655.6	655.6	655.6	655.6
655.5	655.5	655.5	655.5	655.5	655.4	655.4	655.4	655.4	655.4
655.3	655.3	655.3	655.3	655.3	655.3	655.2	655.2		

PEAK OUTFLOW IS 1444. AT TIME 16.17 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1444.	509.	148.	148.	42602.
CMS	41.	14.	4.	4.	1206.
INCHES		6.58	7.64	7.64	7.64
MM		167.02	194.17	194.17	194.17
AC-FT		252.	293.	293.	293.
THOUS CU M		311.	362.	362.	362.

MAXIMUM STORAGE = 124.

STATION OUTING, PLAN 1, RATIO 4

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
2.	2.	2.	2.	2.	2.	3.	3.	4.	4.
5.	5.	6.	7.	7.	8.	9.	9.	10.	11.
12.	13.	14.	15.	16.	17.	18.	19.	20.	21.
22.	23.	24.	25.	25.	26.	27.	28.	29.	30.
30.	31.	32.	33.	33.	34.	35.	35.	36.	37.
37.	38.	38.	39.	40.	40.	41.	42.	42.	43.
43.	43.	44.	44.	45.	45.	46.	47.	48.	49.
50.	51.	52.	53.	55.	61.	67.	74.	80.	97.
121.	144.	166.	188.	221.	253.	282.	309.	333.	356.
386.	434.	474.	510.	541.	568.	593.	614.	632.	647.
659.	668.	675.	680.	688.	707.	750.	837.	1013.	1256.
1512.	1724.	1868.	1933.	1919.	1839.	1718.	1581.	1435.	1301.
1183.	1093.	1000.	931.	876.	840.	809.	780.	752.	724.
698.	673.	650.	630.	612.	596.	583.	569.	553.	531.
500.	463.	419.	374.	355.	338.	321.	303.	286.	269.
253.	237.	222.	207.	193.	183.	175.	168.	161.	154.
147.	141.	136.	130.	125.	120.	116.	112.	108.	104.
101.	98.	95.	92.	89.	86.	84.	82.	82.	81.
81.	80.	80.	79.	79.	78.	78.	77.	77.	76.
76.	75.	75.	74.	74.	73.	73.	72.	72.	72.
71.	71.	70.	70.	70.	69.	69.	69.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	2.	2.	2.	2.
2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
3.	3.	3.	3.	3.	3.	3.	4.	4.	4.
5.	5.	6.	6.	7.	7.	8.	9.	9.	10.
11.	11.	12.	13.	14.	14.	15.	16.	17.	17.
18.	19.	20.	21.	21.	22.	23.	24.	24.	25.
26.	27.	27.	28.	29.	30.	31.	31.	32.	33.
34.	34.	35.	36.	37.	37.	38.	39.	40.	40.
41.	42.	43.	43.	44.	45.	45.	46.	47.	48.
48.	49.	50.	50.	51.	52.	53.	54.	55.	57.
58.	60.	63.	65.	67.	70.	72.	75.	77.	80.
83.	85.	87.	90.	92.	94.	96.	98.	99.	101.
102.	103.	104.	105.	106.	107.	107.	108.	108.	109.
109.	109.	109.	109.	110.	110.	111.	113.	117.	121.
126.	129.	132.	133.	133.	132.	129.	127.	124.	122.
120.	118.	116.	115.	114.	113.	113.	112.	111.	110.
110.	109.	109.	108.	108.	107.	107.	107.	106.	106.

105.	104.	103.	102.	101.	100.	99.	97.	96.	95.
94.	93.	92.	91.	90.	89.	88.	88.	87.	86.
85.	85.	84.	84.	83.	82.	82.	82.	81.	81.
80.	80.	80.	79.	79.	79.	79.	78.	78.	78.
78.	77.	77.	77.	77.	77.	76.	76.	76.	76.
75.	75.	75.	75.	75.	75.	74.	74.	74.	74.
74.	74.	74.	73.	73.	73.	73.	73.		

STAGE

648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.2
648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2
648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.3	648.3
648.3	648.3	648.3	648.3	648.3	648.3	648.3	648.3	648.3	648.3
648.3	648.4	648.4	648.4	648.4	648.4	648.4	648.5	648.5	648.5
648.6	648.6	648.7	648.7	648.8	648.9	648.9	649.0	649.1	649.2
649.3	649.3	649.4	649.5	649.6	649.7	649.8	649.8	649.9	650.0
650.1	650.2	650.3	650.3	650.4	650.5	650.6	650.7	650.8	650.9
650.9	651.0	651.1	651.2	651.3	651.3	651.4	651.5	651.6	651.7
651.7	651.8	651.9	652.0	652.0	652.1	652.2	652.3	652.3	652.4
652.5	652.6	652.6	652.7	652.8	652.9	652.9	653.0	653.1	653.1
653.2	653.3	653.4	653.4	653.5	653.6	653.6	653.7	653.9	654.0
654.2	654.4	654.6	654.8	655.0	655.2	655.5	655.7	655.9	656.1
656.4	656.6	656.8	657.0	657.2	657.4	657.5	657.7	657.8	657.9
658.0	658.1	658.2	658.3	658.3	658.4	658.4	658.5	658.5	658.6
658.6	658.6	658.6	658.6	658.6	658.7	658.8	658.9	659.2	659.5
659.9	660.2	660.4	660.5	660.5	660.4	660.2	660.0	659.8	659.6
659.4	659.3	659.2	659.1	659.0	658.9	658.9	658.8	658.8	658.7
658.7	658.6	658.6	658.5	658.5	658.5	658.4	658.4	658.4	658.3
658.3	658.2	658.1	658.0	657.9	657.8	657.7	657.6	657.5	657.4
657.4	657.3	657.2	657.1	657.0	656.9	656.9	656.8	656.7	656.7
656.6	656.6	656.5	656.4	656.4	656.4	656.3	656.3	656.2	656.2
656.2	656.1	656.1	656.1	656.1	656.0	656.0	656.0	656.0	656.0
655.9	655.9	655.9	655.9	655.9	655.8	655.8	655.8	655.8	655.8
655.7	655.7	655.7	655.7	655.7	655.7	655.7	655.6	655.6	655.6
655.6	655.6	655.6	655.6	655.5	655.5	655.5	655.5		

PEAK OUTFLOW IS 1933. AT TIME 16.17 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1933.	721.	207.	207.	59747.
CMS	55.	20.	6.	6.	1692.
INCHES		9.32	10.72	10.72	10.72
MM		236.62	272.32	272.32	272.32
AC-FT		358.	411.	411.	411.
THOUS CU M		441.	508.	508.	508.

MAXIMUM STORAGE = 133.

STATION OUTING, PLAN 1, RATIO 5

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	2.	2.
2.	2.	2.	3.	3.	3.	4.	5.	6.	6.
7.	8.	9.	10.	10.	11.	13.	14.	15.	16.
18.	19.	20.	21.	23.	24.	25.	26.	27.	28.
29.	30.	31.	32.	33.	34.	35.	35.	36.	37.
38.	39.	39.	40.	41.	42.	42.	43.	44.	44.
45.	45.	46.	47.	47.	48.	49.	49.	50.	50.
51.	51.	52.	52.	53.	53.	54.	55.	59.	64.
69.	75.	82.	104.	129.	153.	177.	207.	243.	276.
308.	339.	369.	434.	490.	534.	570.	598.	621.	640.
657.	674.	693.	712.	733.	753.	773.	791.	808.	822.
834.	843.	849.	855.	864.	891.	961.	1097.	1314.	1601.
1894.	2152.	2332.	2414.	2398.	2299.	2148.	1976.	1804.	1643.
1494.	1364.	1256.	1169.	1098.	1040.	992.	950.	911.	875.
844.	823.	799.	777.	757.	740.	724.	708.	689.	662.
624.	577.	523.	468.	415.	370.	354.	337.	320.	302.
285.	268.	252.	236.	221.	207.	193.	183.	176.	169.
162.	156.	150.	145.	140.	135.	130.	126.	122.	118.
114.	111.	108.	105.	102.	100.	97.	95.	93.	91.
89.	87.	85.	84.	83.	82.	82.	82.	81.	81.
80.	80.	80.	79.	79.	79.	78.	78.	78.	78.
77.	77.	77.	76.	76.	76.	76.	75.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	2.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	3.	3.	3.	3.	3.	3.
3.	3.	3.	3.	4.	4.	4.	4.	5.	5.
6.	6.	7.	8.	8.	9.	10.	11.	12.	13.
13.	14.	15.	16.	17.	18.	19.	20.	21.	22.
23.	24.	24.	25.	26.	27.	28.	29.	30.	31.
32.	33.	34.	35.	36.	37.	38.	39.	40.	41.
42.	43.	43.	44.	45.	46.	47.	48.	49.	50.
51.	52.	53.	54.	55.	56.	57.	58.	58.	59.
60.	61.	62.	63.	64.	65.	66.	67.	69.	71.
73.	75.	78.	81.	83.	86.	89.	91.	93.	96.
98.	100.	102.	103.	105.	106.	107.	107.	108.	108.
109.	109.	110.	110.	111.	111.	112.	112.	113.	113.
113.	113.	114.	114.	114.	114.	116.	118.	122.	127.
133.	138.	141.	143.	142.	140.	138.	134.	131.	128.
125.	123.	121.	119.	118.	117.	116.	115.	115.	114.
114.	113.	112.	112.	111.	111.	110.	110.	110.	109.
108.	107.	106.	104.	103.	102.	101.	100.	98.	97.
96.	95.	94.	93.	92.	91.	90.	89.	89.	88.
87.	86.	86.	85.	85.	84.	84.	83.	83.	82.
82.	81.	81.	81.	81.	80.	80.	80.	79.	79.
79.	79.	79.	79.	78.	78.	78.	78.	78.	78.
77.	77.	77.	77.	77.	77.	77.	77.	76.	76.
76.	76.	76.	76.	76.	76.	76.	75.		

STAGE

648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2
648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2
					648.3	648.3	648.3	648.3	648.3

648.2	648.2	648.2	648.3	648.3	648.3	648.3	648.3	648.3	648.3
648.3	648.3	648.3	648.3	648.4	648.4	648.4	648.4	648.4	648.4
648.4	648.4	648.4	648.5	648.5	648.5	648.5	648.6	648.6	648.6
648.7	648.8	648.8	648.9	649.0	649.1	649.2	649.3	649.4	649.5
649.6	649.7	649.8	649.9	650.0	650.1	650.2	650.3	650.4	650.5
650.6	650.7	650.8	650.9	651.0	651.1	651.2	651.3	651.4	651.5
651.6	651.7	651.8	651.9	652.0	652.1	652.2	652.3	652.4	652.5
652.5	652.6	652.7	652.8	652.9	653.0	653.1	653.2	653.3	653.4
653.5	653.6	653.7	653.7	653.8	653.9	654.0	654.1	654.2	654.3
654.4	654.4	654.5	654.6	654.7	654.8	654.9	655.0	655.2	655.3
655.5	655.7	656.0	656.2	656.4	656.7	656.9	657.1	657.3	657.5
657.7	657.8	658.0	658.1	658.2	658.3	658.4	658.5	658.5	658.5
658.6	658.6	658.6	658.7	658.7	658.8	658.8	658.8	658.9	658.9
658.9	658.9	659.0	659.0	659.0	659.0	659.1	659.3	659.6	660.0
660.4	660.8	661.1	661.2	661.2	661.0	660.8	660.6	660.3	660.1
659.9	659.7	659.5	659.4	659.3	659.2	659.2	659.1	659.1	659.0
659.0	659.0	658.9	658.8	658.8	658.7	658.7	658.7	658.6	658.6
658.5	658.4	658.3	658.2	658.1	658.0	657.9	657.8	657.7	657.6
657.5	657.4	657.3	657.3	657.2	657.1	657.0	657.0	656.9	656.8
656.8	656.7	656.6	656.4	656.5	656.5	656.4	656.4	656.4	656.3
656.3	656.3	656.2	656.2	656.2	656.2	656.1	656.1	656.1	656.1
656.1	656.0	656.0	656.0	656.0	656.0	656.0	656.0	655.9	655.9
655.9	655.9	655.9	655.9	655.9	655.9	655.8	655.8	655.8	655.8
655.8	655.8	655.8	655.8	655.8	655.8	655.7	655.7		

PEAK OUTFLOW IS 2414. AT TIME 16.17 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	2414.	931.	267.	267.	74936.
CMS	68.	26.	8.	8.	2179.
INCHES		12.02	13.81	13.81	13.81
MM		305.43	350.66	350.66	350.66
AC-FT		462.	530.	530.	530.
THOUS CU M		569.	654.	654.	654.

MAXIMUM STORAGE = 143.

STATION OUTING, PLAN 1, RATIO 6

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	2.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	3.	3.	3.	4.	5.
6.	7.	8.	9.	10.	12.	14.	16.	18.	20.
23.	25.	26.	28.	30.	32.	34.	35.	37.	38.
40.	42.	43.	44.	45.	47.	48.	49.	50.	51.
52.	53.	55.	59.	64.	69.	74.	78.	84.	100.
115.	130.	144.	157.	169.	180.	193.	209.	224.	238.
250.	261.	271.	281.	289.	297.	304.	310.	316.	321.
326.	330.	334.	338.	341.	346.	354.	368.	413.	475.
545.	619.	693.	762.	825.	883.	945.	995.	1038.	1076.
1114.	1152.	1188.	1223.	1256.	1284.	1308.	1329.	1346.	1363.

1381.	1405.	1435.	1470.	1509.	1549.	1588.	1621.	1650.	1675.
1695.	1709.	1718.	1726.	1743.	1794.	1922.	2178.	2591.	3143.
3742.	4270.	4639.	4811.	4783.	4589.	4291.	3951.	3610.	3290.
3002.	2754.	2544.	2370.	2227.	2108.	2009.	1922.	1842.	1768.
1699.	1635.	1578.	1526.	1482.	1447.	1416.	1385.	1343.	1292.
1197.	1090.	969.	852.	768.	692.	623.	560.	503.	452.
406.	368.	353.	336.	320.	303.	286.	271.	256.	243.
231.	220.	210.	201.	193.	187.	183.	179.	175.	172.
169.	166.	163.	160.	158.	156.	153.	151.	150.	148.
146.	144.	143.	142.	140.	139.	138.	137.	136.	135.
134.	133.	132.	132.	131.	130.	130.	129.	129.	128.
128.	127.	127.	126.	126.	126.	125.	125.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	2.	3.	3.	3.	3.
3.	3.	3.	3.	4.	4.	4.	4.	4.	4.
4.	5.	5.	5.	5.	5.	6.	6.	6.	6.
6.	7.	7.	7.	7.	8.	8.	9.	10.	11.
12.	13.	14.	15.	17.	18.	20.	21.	23.	25.
26.	28.	30.	32.	33.	35.	37.	39.	41.	42.
44.	46.	48.	50.	52.	54.	56.	57.	59.	61.
63.	65.	67.	69.	71.	73.	75.	77.	79.	80.
82.	84.	85.	86.	88.	89.	90.	91.	92.	93.
94.	95.	95.	96.	96.	97.	97.	98.	98.	99.
99.	99.	99.	100.	100.	100.	101.	102.	103.	104.
106.	108.	110.	111.	113.	114.	115.	116.	117.	118.
118.	119.	120.	120.	121.	121.	122.	122.	123.	123.
123.	124.	124.	125.	125.	126.	127.	127.	128.	129.
129.	129.	129.	129.	130.	131.	133.	138.	146.	157.
168.	178.	185.	189.	188.	184.	179.	172.	166.	159.
154.	149.	145.	142.	139.	137.	135.	133.	132.	130.
129.	128.	127.	126.	125.	124.	124.	123.	123.	121.
120.	118.	116.	114.	112.	110.	108.	106.	105.	104.
103.	102.	101.	100.	99.	97.	96.	95.	94.	93.
93.	92.	91.	91.	90.	90.	89.	89.	88.	88.
88.	87.	87.	87.	87.	86.	86.	86.	86.	85.
85.	85.	85.	85.	85.	85.	84.	84.	84.	84.
84.	84.	84.	84.	84.	84.	83.	83.	83.	83.
83.	83.	83.	83.	83.	83.	83.	83.		

STAGE

648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1
648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.1	648.2
648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2	648.2
648.2	648.2	648.2	648.2	648.2	648.2	648.3	648.3	648.3	648.3
648.3	648.3	648.3	648.3	648.3	648.3	648.3	648.4	648.4	648.4
648.4	648.4	648.4	648.4	648.5	648.5	648.5	648.5	648.5	648.5
648.6	648.6	648.6	648.6	648.6	648.7	648.7	648.7	648.7	648.7
648.8	648.8	648.8	648.8	648.9	648.9	649.0	649.0	649.1	649.2
649.4	649.5	649.6	649.8	650.0	650.1	650.3	650.5	650.6	650.8
651.0	651.2	651.3	651.5	651.7	651.9	652.1	652.3	652.4	652.6
652.8	653.0	653.2	653.4	653.5	653.7	653.9	654.1	654.3	654.5
654.6	654.8	655.0	655.2	655.3	655.5	655.7	655.8	656.0	656.2
656.3	656.4	656.6	656.7	656.8	656.9	657.0	657.1	657.2	657.3
657.3	657.4	657.5	657.5	657.6	657.6	657.6	657.7	657.7	657.7
657.8	657.8	657.8	657.8	657.8	657.9	657.9	658.0	658.1	658.2
658.3	658.5	658.6	658.8	658.9	659.0	659.1	659.2	659.2	659.3
659.3	659.4	659.4	659.5	659.5	659.6	659.6	659.6	659.7	659.7
659.7	659.8	659.8	659.8	659.9	660.0	660.0	660.1	660.1	660.1
660.2	660.2	660.2	660.2	660.2	660.3	660.5	660.8	661.4	662.2

663.1	663.8	664.3	664.6	664.5	664.3	663.8	663.4	662.9	662.4
662.0	661.7	661.4	661.1	660.9	660.7	660.6	660.5	660.4	660.3
660.2	660.1	660.0	659.9	659.9	659.8	659.8	659.7	659.7	659.6
659.5	659.3	659.1	659.0	658.8	658.6	658.5	658.4	658.3	658.2
658.1	658.0	657.9	657.8	657.7	657.6	657.5	657.4	657.4	657.3
657.2	657.2	657.1	657.1	657.0	657.0	656.9	656.9	656.9	656.8
656.8	656.8	656.8	656.7	656.7	656.7	656.7	656.6	656.6	656.6
656.6	656.6	656.6	656.6	656.5	656.5	656.5	656.5	656.5	656.5
656.5	656.5	656.5	656.5	656.5	656.4	656.4	656.4	656.4	656.4
656.4	656.4	656.4	656.4	656.4	656.4	656.4	656.4		

PEAK OUTFLOW IS 4811. AT TIME 16.17 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	4811.	1927.	568.	568.	163727.
CMS	136.	55.	16.	16.	4636.
INCHES		24.90	29.38	29.38	29.38
MM		632.39	746.24	746.24	746.24
AC-FT		956.	1128.	1128.	1128.
THOUS CU M		1179.	1391.	1391.	1391.

MAXIMUM STORAGE = 189.

********** ********** ********** ********** **********

SUB-AREA RUNOFF COMPUTATION

SUBAREA RUNOFF FOR LAKE SHERWOOD

ISTAQ	ICOMP	IECON	ITAPE	JPLT	JPRT	INAME	ISTAGE	IAUTO
INFLOW	0	-0	-0	1	3	1	-0	-0

HYDROGRAPH DATA

IHYDG	IUHG	TAREA	SNAP	TRSDA	TRSPC	RATIO	ISNOW	ISAME	LOCAL
1	2	2.13	-0.00	2.13	1.00	-0.000	-0	1	-0

PRECIP DATA

SPFE	PMS	R6	R12	R24	R48	R72	R96
-0.00	26.00	100.00	120.00	130.00	-0.00	-0.00	-0.00

LOSS DATA

LROPT	STRKR	DLTKR	RTIOL	ERAIN	STRKS	RTIOK	STRTL	CNSTL	ALSMX	RTIMP
-0	-0.00	-0.00	1.00	-0.00	-0.00	1.00	-1.00	-82.00	-0.00	.10

CURVE NO = -82.00 WETNESS = -1.00 EFFECT CN = 82.00

UNIT HYDROGRAPH DATA

TC= -0.00 LAG= .45

RECESSION DATA

STRTQ= 4.26 QRCSN= -.10 RTIOR= 3.00

UNIT HYDROGRAPH 29 END OF PERIOD ORDINATES, TC= -0.00 HOURS, LAG= .45 VOL= 1.00

165.	496.	1018.	1643.	2007.	2091.	1965.	1707.	1360.	974.
736.	560.	431.	325.	248.	189.	143.	107.	81.	62.
47.	36.	27.	21.	17.	13.	9.	5.	2.	

0 END-OF-PERIOD FLOW

MO.DA	HR.MN	PERIOD	RAIN	EXCS	LOSS	COMP Q	MO.DA	HR.MN	PERIOD	RAIN	EXCS	LOSS	COMP Q

1.01	.05	1	.01	.00	.01	4.	1.01	12.05	145	.22	.20	.01	1122.
1.01	.10	2	.01	.00	.01	4.	1.01	12.10	146	.22	.20	.01	1191.
1.01	.15	3	.01	.00	.01	5.	1.01	12.15	147	.22	.20	.01	1330.
1.01	.20	4	.01	.00	.01	8.	1.01	12.20	148	.22	.20	.01	1555.
1.01	.25	5	.01	.00	.01	10.	1.01	12.25	149	.22	.20	.01	1829.
1.01	.30	6	.01	.00	.01	13.	1.01	12.30	150	.22	.21	.01	2116.
1.01	.35	7	.01	.00	.01	16.	1.01	12.35	151	.22	.21	.01	2387.
1.01	.40	8	.01	.00	.01	18.	1.01	12.40	152	.22	.21	.01	2624.
1.01	.45	9	.01	.00	.01	20.	1.01	12.45	153	.22	.21	.01	2815.
1.01	.50	10	.01	.00	.01	21.	1.01	12.50	154	.22	.21	.01	2955.
1.01	.55	11	.01	.00	.01	22.	1.01	12.55	155	.22	.21	.01	3062.
1.01	1.00	12	.01	.00	.01	22.	1.01	13.00	156	.22	.21	.01	3145.
1.01	1.05	13	.01	.00	.01	23.	1.01	13.05	157	.26	.25	.01	3218.
1.01	1.10	14	.01	.00	.01	23.	1.01	13.10	158	.26	.25	.01	3290.
1.01	1.15	15	.01	.00	.01	24.	1.01	13.15	159	.26	.25	.01	3373.
1.01	1.20	16	.01	.00	.01	24.	1.01	13.20	160	.26	.25	.01	3474.
1.01	1.25	17	.01	.00	.01	24.	1.01	13.25	161	.26	.25	.01	3584.
1.01	1.30	18	.01	.00	.01	24.	1.01	13.30	162	.26	.25	.01	3693.
1.01	1.35	19	.01	.00	.01	24.	1.01	13.35	163	.26	.25	.01	3792.
1.01	1.40	20	.01	.00	.01	24.	1.01	13.40	164	.26	.25	.01	3879.
1.01	1.45	21	.01	.00	.01	24.	1.01	13.45	165	.26	.25	.01	3949.
1.01	1.50	22	.01	.00	.01	24.	1.01	13.50	166	.26	.25	.01	4000.
1.01	1.55	23	.01	.00	.01	24.	1.01	13.55	167	.26	.25	.01	4040.
1.01	2.00	24	.01	.00	.01	24.	1.01	14.00	168	.26	.25	.01	4072.
1.01	2.05	25	.01	.00	.01	24.	1.01	14.05	169	.32	.32	.01	4109.
1.01	2.10	26	.01	.00	.01	24.	1.01	14.10	170	.32	.32	.01	4161.
1.01	2.15	27	.01	.00	.01	24.	1.01	14.15	171	.32	.32	.01	4242.
1.01	2.20	28	.01	.00	.01	24.	1.01	14.20	172	.32	.32	.01	4360.
1.01	2.25	29	.01	.00	.01	24.	1.01	14.25	173	.32	.32	.01	4499.
1.01	2.30	30	.01	.00	.01	24.	1.01	14.30	174	.32	.32	.01	4641.
1.01	2.35	31	.01	.00	.01	24.	1.01	14.35	175	.32	.32	.01	4774.
1.01	2.40	32	.01	.00	.01	24.	1.01	14.40	176	.32	.32	.01	4890.
1.01	2.45	33	.01	.00	.01	24.	1.01	14.45	177	.32	.32	.01	4983.
1.01	2.50	34	.01	.00	.01	24.	1.01	14.50	178	.32	.32	.00	5050.
1.01	2.55	35	.01	.00	.01	25.	1.01	14.55	179	.32	.32	.00	5103.
1.01	3.00	36	.01	.00	.01	26.	1.01	15.00	180	.32	.32	.00	5143.
1.01	3.05	37	.01	.00	.01	27.	1.01	15.05	181	.20	.19	.00	5155.
1.01	3.10	38	.01	.00	.01	29.	1.01	15.10	182	.40	.39	.01	5150.
1.01	3.15	39	.01	.00	.01	31.	1.01	15.15	183	.40	.39	.01	5138.
1.01	3.20	40	.01	.00	.01	32.	1.01	15.20	184	.59	.59	.01	5178.
1.01	3.25	41	.01	.00	.01	35.	1.01	15.25	185	.69	.68	.01	5371.
1.01	3.30	42	.01	.00	.01	37.	1.01	15.30	186	1.68	1.66	.02	5918.
1.01	3.35	43	.01	.00	.01	39.	1.01	15.35	187	2.77	2.74	.02	7171.
1.01	3.40	44	.01	.00	.01	41.	1.01	15.40	188	1.09	1.08	.01	9158.
1.01	3.45	45	.01	.00	.01	44.	1.01	15.45	189	.69	.69	.00	11749.
1.01	3.50	46	.01	.00	.01	46.	1.01	15.50	190	.59	.59	.00	14321.
1.01	3.55	47	.01	.00	.01	48.	1.01	15.55	191	.40	.39	.00	15948.
1.01	4.00	48	.01	.00	.01	50.	1.01	16.00	192	.40	.39	.00	16458.
1.01	4.05	49	.01	.00	.01	53.	1.01	16.05	193	.30	.30	.00	15991.
1.01	4.10	50	.01	.00	.01	55.	1.01	16.10	194	.30	.30	.00	14799.
1.01	4.15	51	.01	.00	.01	57.	1.01	16.15	195	.30	.30	.00	13133.
1.01	4.20	52	.01	.00	.01	59.	1.01	16.20	196	.30	.30	.00	11384.
1.01	4.25	53	.01	.00	.01	61.	1.01	16.25	197	.30	.30	.00	9963.
1.01	4.30	54	.01	.00	.01	63.	1.01	16.30	198	.30	.30	.00	8821.
1.01	4.35	55	.01	.00	.01	65.	1.01	16.35	199	.30	.30	.00	7914.
1.01	4.40	56	.01	.00	.01	67.	1.01	16.40	200	.30	.30	.00	7207.
1.01	4.45	57	.01	.00	.01	69.	1.01	16.45	201	.30	.30	.00	6668.
1.01	4.50	58	.01	.01	.01	71.	1.01	16.50	202	.30	.30	.00	6262.
1.01	4.55	59	.01	.01	.01	73.	1.01	16.55	203	.30	.30	.00	5949.
1.01	5.00	60	.01	.01	.01	75.	1.01	17.00	204	.30	.30	.00	5713.
1.01	5.05	61	.01	.01	.01	77.	1.01	17.05	205	.24	.24	.00	5524.
1.01	5.10	62	.01	.01	.01	79.	1.01	17.10	206	.24	.24	.00	5358.

1.01	10.30	126	.07	.07	.01	1055.	1.01	22.30	270	.02	.02	.00	356.
1.01	10.35	127	.07	.07	.01	1058.	1.01	22.35	271	.02	.02	.00	356.
1.01	10.40	128	.07	.07	.01	1061.	1.01	22.40	272	.02	.02	.00	356.
1.01	10.45	129	.07	.07	.01	1064.	1.01	22.45	273	.02	.02	.00	356.
1.01	10.50	130	.07	.07	.01	1067.	1.01	22.50	274	.02	.02	.00	356.
1.01	10.55	131	.07	.07	.01	1069.	1.01	22.55	275	.02	.02	.00	356.
1.01	11.00	132	.07	.07	.01	1072.	1.01	23.00	276	.02	.02	.00	356.
1.01	11.05	133	.07	.07	.01	1075.	1.01	23.05	277	.02	.02	.00	356.
1.01	11.10	134	.07	.07	.01	1077.	1.01	23.10	278	.02	.02	.00	356.
1.01	11.15	135	.07	.07	.01	1079.	1.01	23.15	279	.02	.02	.00	356.
1.01	11.20	136	.07	.07	.01	1082.	1.01	23.20	280	.02	.02	.00	356.
1.01	11.25	137	.07	.07	.01	1084.	1.01	23.25	281	.02	.02	.00	356.
1.01	11.30	138	.07	.07	.01	1086.	1.01	23.30	282	.02	.02	.00	356.
1.01	11.35	139	.07	.07	.01	1088.	1.01	23.35	283	.02	.02	.00	356.
1.01	11.40	140	.07	.07	.01	1090.	1.01	23.40	284	.02	.02	.00	356.
1.01	11.45	141	.07	.07	.01	1092.	1.01	23.45	285	.02	.02	.00	356.
1.01	11.50	142	.07	.07	.01	1094.	1.01	23.50	286	.02	.02	.00	356.
1.01	11.55	143	.07	.07	.01	1096.	1.01	23.55	287	.02	.02	.00	356.
1.01	12.00	144	.07	.07	.00	1098.	1.02	0.00	288	.02	.02	.00	356.
									SUM	33.80	31.55	2.25	520200.
										(859.)	(801.)	(57.)	(14730.42)

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	16458.	5741.	1806.	1806.	520015.
CMS	466.	163.	51.	51.	14725.
INCHES		25.07	31.54	31.54	31.54
MM		636.83	801.18	801.18	801.18
AC-FT		2847.	3581.	3581.	3581.
THOUS CU M		3511.	4418.	4418.	4418.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 1

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1646.	574.	181.	181.	52002.
CMS	47.	16.	5.	5.	1473.
INCHES		2.51	3.15	3.15	3.15
MM		63.68	80.12	80.12	80.12
AC-FT		285.	358.	358.	358.
THOUS CU M		351.	442.	442.	442.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 2

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	3292.	1148.	361.	361.	104003.
CMS	93.	33.	10.	10.	2945.
INCHES		5.01	6.31	6.31	6.31
MM		127.37	160.24	160.24	160.24
AC-FT		569.	716.	716.	716.
THOUS CU M		702.	884.	884.	884.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 3

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	4937.	1722.	542.	542.	156005.
CMS	140.	49.	15.	15.	4418.
INCHES		7.52	9.46	9.46	9.46

1.01	5.15	63	.01	.01	.01	81.	1.01	17.15	207	.24	.24	.00	5191.
1.01	5.20	64	.01	.01	.01	82.	1.01	17.20	208	.24	.24	.00	5008.
1.01	5.25	65	.01	.01	.01	84.	1.01	17.25	209	.24	.24	.00	4821.
1.01	5.30	66	.01	.01	.01	86.	1.01	17.30	210	.24	.24	.00	4643.
1.01	5.35	67	.01	.01	.01	88.	1.01	17.35	211	.24	.24	.00	4482.
1.01	5.40	68	.01	.01	.01	89.	1.01	17.40	212	.24	.24	.00	4344.
1.01	5.45	69	.01	.01	.01	91.	1.01	17.45	213	.24	.24	.00	4231.
1.01	5.50	70	.01	.01	.01	92.	1.01	17.50	214	.24	.24	.00	4147.
1.01	5.55	71	.01	.01	.01	94.	1.01	17.55	215	.24	.24	.00	4082.
1.01	6.00	72	.01	.01	.01	96.	1.01	18.00	216	.24	.24	.00	4036.
1.01	6.05	73	.07	.03	.04	101.	1.01	18.05	217	.02	.02	.00	3968.
1.01	6.10	74	.07	.04	.04	117.	1.01	18.10	218	.02	.02	.00	3838.
1.01	6.15	75	.07	.04	.04	146.	1.01	18.15	219	.02	.02	.00	3601.
1.01	6.20	76	.07	.04	.03	195.	1.01	18.20	220	.02	.02	.00	3234.
1.01	6.25	77	.07	.04	.03	255.	1.01	18.25	221	.02	.02	.00	2791.
1.01	6.30	78	.07	.04	.03	322.	1.01	18.30	222	.02	.02	.00	2333.
1.01	6.35	79	.07	.04	.03	388.	1.01	18.35	223	.02	.02	.00	1904.
1.01	6.40	80	.07	.04	.03	450.	1.01	18.40	224	.02	.02	.00	1593.
1.01	6.45	81	.07	.05	.03	504.	1.01	18.45	225	.02	.02	.00	1427.
1.01	6.50	82	.07	.05	.03	550.	1.01	18.50	226	.02	.02	.00	1279.
1.01	6.55	83	.07	.05	.02	590.	1.01	18.55	227	.02	.02	.00	1146.
1.01	7.00	84	.07	.05	.02	625.	1.01	19.00	228	.02	.02	.00	1027.
1.01	7.05	85	.07	.05	.02	656.	1.01	19.05	229	.02	.02	.00	920.
1.01	7.10	86	.07	.05	.02	684.	1.01	19.10	230	.02	.02	.00	824.
1.01	7.15	87	.07	.05	.02	709.	1.01	19.15	231	.02	.02	.00	738.
1.01	7.20	88	.07	.05	.02	733.	1.01	19.20	232	.02	.02	.00	662.
1.01	7.25	89	.07	.05	.02	754.	1.01	19.25	233	.02	.02	.00	593.
1.01	7.30	90	.07	.05	.02	773.	1.01	19.30	234	.02	.02	.00	531.
1.01	7.35	91	.07	.05	.02	791.	1.01	19.35	235	.02	.02	.00	476.
1.01	7.40	92	.07	.05	.02	807.	1.01	19.40	236	.02	.02	.00	426.
1.01	7.45	93	.07	.06	.02	823.	1.01	19.45	237	.02	.02	.00	384.
1.01	7.50	94	.07	.06	.02	837.	1.01	19.50	238	.02	.02	.00	376.
1.01	7.55	95	.07	.06	.02	851.	1.01	19.55	239	.02	.02	.00	370.
1.01	8.00	96	.07	.06	.02	864.	1.01	20.00	240	.02	.02	.00	366.
1.01	8.05	97	.07	.06	.02	876.	1.01	20.05	241	.02	.02	.00	362.
1.01	8.10	98	.07	.06	.01	887.	1.01	20.10	242	.02	.02	.00	359.
1.01	8.15	99	.07	.06	.01	898.	1.01	20.15	243	.02	.02	.00	357.
1.01	8.20	100	.07	.06	.01	908.	1.01	20.20	244	.02	.02	.00	356.
1.01	8.25	101	.07	.06	.01	917.	1.01	20.25	245	.02	.02	.00	356.
1.01	8.30	102	.07	.06	.01	926.	1.01	20.30	246	.02	.02	.00	356.
1.01	8.35	103	.07	.06	.01	934.	1.01	20.35	247	.02	.02	.00	356.
1.01	8.40	104	.07	.06	.01	943.	1.01	20.40	248	.02	.02	.00	356.
1.01	8.45	105	.07	.06	.01	950.	1.01	20.45	249	.02	.02	.00	356.
1.01	8.50	106	.07	.06	.01	958.	1.01	20.50	250	.02	.02	.00	356.
1.01	8.55	107	.07	.06	.01	965.	1.01	20.55	251	.02	.02	.00	356.
1.01	9.00	108	.07	.06	.01	971.	1.01	21.00	252	.02	.02	.00	356.
1.01	9.05	109	.07	.06	.01	978.	1.01	21.05	253	.02	.02	.00	356.
1.01	9.10	110	.07	.06	.01	984.	1.01	21.10	254	.02	.02	.00	356.
1.01	9.15	111	.07	.06	.01	990.	1.01	21.15	255	.02	.02	.00	356.
1.01	9.20	112	.07	.06	.01	996.	1.01	21.20	256	.02	.02	.00	356.
1.01	9.25	113	.07	.06	.01	1001.	1.01	21.25	257	.02	.02	.00	356.
1.01	9.30	114	.07	.06	.01	1006.	1.01	21.30	258	.02	.02	.00	356.
1.01	9.35	115	.07	.06	.01	1011.	1.01	21.35	259	.02	.02	.00	356.
1.01	9.40	116	.07	.06	.01	1016.	1.01	21.40	260	.02	.02	.00	356.
1.01	9.45	117	.07	.06	.01	1020.	1.01	21.45	261	.02	.02	.00	356.
1.01	9.50	118	.07	.06	.01	1025.	1.01	21.50	262	.02	.02	.00	356.
1.01	9.55	119	.07	.06	.01	1029.	1.01	21.55	263	.02	.02	.00	356.
1.01	10.00	120	.07	.06	.01	1033.	1.01	22.00	264	.02	.02	.00	356.
1.01	10.05	121	.07	.06	.01	1037.	1.01	22.05	265	.02	.02	.00	356.
1.01	10.10	122	.07	.06	.01	1041.	1.01	22.10	266	.02	.02	.00	356.
1.01	10.15	123	.07	.06	.01	1044.	1.01	22.15	267	.02	.02	.00	356.
1.01	10.20	124	.07	.06	.01	1048.	1.01	22.20	268	.02	.02	.00	356.
1.01	10.25	125	.07	.07	.01	1051.	1.01	22.25	269	.02	.02	.00	356.

1.01	10.30	126	.07	.07	.01	1055.	1.01	22.30	270	.02	.02	.00	356.
1.01	10.35	127	.07	.07	.01	1058.	1.01	22.35	271	.02	.02	.00	356.
1.01	10.40	128	.07	.07	.01	1061.	1.01	22.40	272	.02	.02	.00	356.
1.01	10.45	129	.07	.07	.01	1064.	1.01	22.45	273	.02	.02	.00	356.
1.01	10.50	130	.07	.07	.01	1067.	1.01	22.50	274	.02	.02	.00	356.
1.01	10.55	131	.07	.07	.01	1069.	1.01	22.55	275	.02	.02	.00	356.
1.01	11.00	132	.07	.07	.01	1072.	1.01	23.00	276	.02	.02	.00	356.
1.01	11.05	133	.07	.07	.01	1075.	1.01	23.05	277	.02	.02	.00	356.
1.01	11.10	134	.07	.07	.01	1077.	1.01	23.10	278	.02	.02	.00	356.
1.01	11.15	135	.07	.07	.01	1079.	1.01	23.15	279	.02	.02	.00	356.
1.01	11.20	136	.07	.07	.01	1082.	1.01	23.20	280	.02	.02	.00	356.
1.01	11.25	137	.07	.07	.01	1084.	1.01	23.25	281	.02	.02	.00	356.
1.01	11.30	138	.07	.07	.01	1086.	1.01	23.30	282	.02	.02	.00	356.
1.01	11.35	139	.07	.07	.01	1088.	1.01	23.35	283	.02	.02	.00	356.
1.01	11.40	140	.07	.07	.01	1090.	1.01	23.40	284	.02	.02	.00	356.
1.01	11.45	141	.07	.07	.01	1092.	1.01	23.45	285	.02	.02	.00	356.
1.01	11.50	142	.07	.07	.01	1094.	1.01	23.50	286	.02	.02	.00	356.
1.01	11.55	143	.07	.07	.01	1096.	1.01	23.55	287	.02	.02	.00	356.
1.01	12.00	144	.07	.07	.00	1098.	1.02	0.00	288	.02	.02	.00	356.
									SUM	33.80	31.55	2.25	520200.
										(859.)	(801.)	(57.)	(14730.42)

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	16458.	5741.	1806.	1806.	520015.
CMS	466.	163.	51.	51.	14725.
INCHES		25.07	31.54	31.54	31.54
MM		636.83	801.18	801.18	801.18
AC-FT		2847.	3581.	3581.	3581.
THOUS CU M		3511.	4418.	4418.	4418.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 1

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1646.	574.	181.	181.	52002.
CMS	47.	16.	5.	5.	1473.
INCHES		2.51	3.15	3.15	3.15
MM		63.68	80.12	80.12	80.12
AC-FT		285.	358.	358.	358.
THOUS CU M		351.	442.	442.	442.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 2

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	3292.	1148.	361.	361.	104003.
CMS	93.	33.	10.	10.	2945.
INCHES		5.01	6.31	6.31	6.31
MM		127.37	160.24	160.24	160.24
AC-FT		569.	716.	716.	716.
THOUS CU M		702.	884.	884.	884.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 3

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	4937.	1722.	542.	542.	156005.
CMS	140.	49.	15.	15.	4418.
INCHES		7.52	9.46	9.46	9.46
MM		191.05	240.35	240.35	240.35

AC-FT	854.	1074.	1074.	1074.
THOUS CU M	1053.	1325.	1325.	1325.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 4

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	6583.	2296.	722.	722.	208006.
CMS	186.	65.	20.	20.	5890.
INCHES		10.03	12.42	12.62	12.62
MM		254.73	320.47	320.47	320.47
AC-FT		1139.	1433.	1433.	1433.
THOUS CU M		1405.	1767.	1767.	1767.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 5

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	8229.	2970.	903.	903.	260008.
CMS	233.	81.	26.	26.	7363.
INCHES		12.54	15.77	15.77	15.77
MM		318.42	400.59	400.59	400.59
AC-FT		1423.	1791.	1791.	1791.
THOUS CU M		1756.	2209.	2209.	2209.

HYDROGRAPH AT STAINFLOW FOR PLAN 1, RTIO 6

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	16458.	5741.	1806.	1806.	520015.
CMS	466.	163.	51.	51.	14725.
INCHES		25.07	31.54	31.54	31.54
MM		636.83	801.18	801.18	801.18
AC-FT		2847.	3581.	3581.	3581.
THOUS CU M		3511.	4418.	4418.	4418.

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COMBINE HYDROGRAPHS

LAKES MARIAN, SUGARHOLLOW, ROBINHOOD, AND SHERWOOD HYDRO

ISTAQ	ICOMP	IECON	ITAPE	JPLT	JPRT	INAME	ISTAGE	IAUTO
	4	-0	-0	1	3	1	-0	-0

SUM OF 4 HYDROGRAPHS AT PLAN 1 RTIO 1

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1816.	792.	293.	293.	84284.
CMS	51.	22.	8.	8.	2387.
INCHES		1.41	2.37	2.37	2.37
MM		40.79	60.29	60.29	60.29
AC-FT		393.	580.	580.	580.
THOUS CU M		484.	716.	716.	716.

SUM OF 4 HYDROGRAPHS AT PLAN 1 RTIO 2

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	5303.	2049.	670.	670.	192930.
CMS	150.	58.	19.	19.	5463.
INCHES		4.15	5.43	5.43	5.43
MM		105.54	138.00	138.00	138.00
AC-FT		1016.	1329.	1329.	1329.
THOUS CU M		1253.	1639.	1639.	1639.

SUM OF 4 HYDROGRAPHS AT PLAN 1 RTIO 3

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	8840.	3356.	1052.	1052.	302953.
CMS	250.	95.	30.	30.	8579.
INCHES		6.81	8.53	8.53	8.53
MM		172.85	216.69	216.69	216.69
AC-FT		1664.	2086.	2086.	2086.
THOUS CU M		2053.	2574.	2574.	2574.

SUM OF 4 HYDROGRAPHS AT PLAN 1 RTIO 4

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	11840.	4674.	1435.	1435.	413607.
CMS	335.	132.	41.	41.	11706.
INCHES		9.48	11.64	11.64	11.64
MM		240.68	295.70	295.70	295.70
AC-FT		2317.	2847.	2847.	2847.
THOUS CU M		2859.	3512.	3512.	3512.

SUM OF 4 HYDROGRAPHS AT PLAN 1 RTIO 5

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	14742.	5990.	1820.	1820.	524304.
CMS	417.	170.	52.	52.	14847.
INCHES		12.15	14.76	14.76	14.76
MM		308.51	375.02	375.02	375.02
AC-FT		2970.	3611.	3611.	3611.
THOUS CU M		3664.	4454.	4454.	4454.

SUM OF 4 HYDROGRAPHS AT PLAN 1 RTIO 6

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	29409.	12238.	3750.	3750.	1080122.
CMS	833.	347.	106.	106.	30586.
INCHES		24.81	30.42	30.42	30.42
MM		630.27	772.58	772.58	772.58
AC-FT		6069.	7439.	7439.	7439.
THOUS CU M		7486.	9176.	9176.	9176.

HYDROGRAPH ROUTING

RESERVOIR ROUTING FOR LAKE SHERWOOD

ISTAQ	ICOMP	IECON	ITAPE	JPLT	JPRT	INAME	ISTAGE	IAUTO
OUTING	1	-0	-0	2	2	1	-0	-0

ROUTING DATA

QLOSS	CLOSS	AVG	IRES	ISAME	IOPT	IPMP	LSTR
-0.0	-0.000	-0.00	1	1	-0	-0	-0

NSTPS	NSTDL	LAG	AMSKK	X	TSK	STORA	ISPRAT
1	-0	-0	-0.000	-0.000	-0.000	-623.	-1

STAGE	622.8	623.0	623.5	624.0	624.5	625.0	625.5	626.0	626.5	627.0
	627.5	628.0	628.5	629.0	629.5	630.0	630.5	631.0	631.5	632.0
FLOW	0.	2.	13.	35.	64.	98.	135.	183.	252.	376.
	522.	748.	996.	1242.	1398.	2645.	4298.	6443.	8929.	11749.
CAPACITY=	0.	28.	100.	172.	244.	318.	392.	466.	542.	619.
	696.	775.	854.	934.	1015.	1097.	1178.	1262.	1346.	1431.
ELEVATION=	623.	623.	623.	624.	624.	625.	625.	626.	626.	627.
	627.	628.	628.	629.	629.	630.	630.	631.	631.	632.

CREL	SPWID	COQW	EXPW	ELEVL	COQL	CAREA	EXPL
622.8	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0

DAM DATA

TOPEL	COQD	EXPD	DAMWID
629.6	-0.0	-0.0	-0.

STATION OUTING, PLAN 1, RATIO 1

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	3.	3.	3.	3.	3.	3.	4.	4.
4.	4.	4.	4.	5.	5.	5.	5.	5.	5.
6.	6.	6.	6.	6.	6.	7.	7.	7.	7.
8.	8.	8.	9.	9.	10.	10.	11.	11.	11.
12.	12.	13.	14.	15.	15.	16.	17.	19.	20.
21.	22.	23.	24.	25.	26.	27.	29.	30.	31.
32.	34.	35.	37.	38.	40.	42.	45.	48.	52.
56.	61.	66.	71.	76.	80.	84.	87.	90.	93.
96.	99.	101.	104.	107.	109.	112.	115.	117.	120.
122.	125.	127.	130.	132.	135.	137.	141.	143.	146.
149.	151.	153.	155.	157.	159.	160.	161.	163.	164.
165.	166.	167.	168.	169.	169.	170.	171.	171.	172.
172.	173.	173.	174.	174.	175.	175.	175.	176.	176.
176.	177.	177.	177.	178.	178.	178.	179.	179.	179.
179.	180.	180.	180.	180.	181.	181.	181.	181.	181.
182.	182.	182.	182.	183.	183.	183.	183.	184.	184.
184.	184.	185.	185.	185.	185.	186.	186.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	3.	3.	3.	3.	3.	4.
4.	4.	5.	5.	6.	6.	7.	7.	8.	8.
9.	9.	10.	11.	11.	12.	13.	13.	14.	15.
15.	16.	17.	18.	18.	19.	20.	21.	22.	22.
23.	24.	25.	26.	27.	28.	28.	29.	30.	31.
32.	33.	34.	35.	36.	37.	38.	39.	40.	41.
42.	43.	44.	45.	46.	47.	48.	49.	50.	51.
52.	53.	54.	56.	57.	58.	59.	60.	62.	64.
65.	68.	70.	72.	75.	77.	80.	83.	85.	88.
91.	94.	97.	100.	104.	107.	110.	114.	117.	120.
124.	127.	131.	135.	139.	143.	147.	151.	155.	159.
163.	168.	172.	176.	180.	185.	190.	196.	204.	214.
225.	237.	249.	260.	271.	280.	288.	296.	302.	308.
314.	320.	325.	331.	336.	342.	347.	352.	357.	362.
367.	372.	377.	382.	387.	392.	396.	401.	406.	410.
414.	418.	421.	424.	426.	429.	431.	433.	435.	437.
439.	441.	442.	443.	445.	446.	447.	448.	449.	450.
450.	451.	452.	453.	453.	454.	454.	455.	455.	456.
456.	457.	458.	458.	458.	459.	459.	460.	460.	461.
461.	461.	462.	462.	463.	463.	463.	464.	464.	464.
465.	465.	465.	466.	466.	466.	467.	467.	467.	468.
468.	468.	468.	469.	469.	469.	469.	470.		

STAGE

622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.9	622.9	622.9
622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	623.0	623.0
623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0
623.0	623.0	623.0	623.0	623.1	623.1	623.1	623.1	623.1	623.1
623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.1	623.2	623.2
623.2	623.2	623.2	623.2	623.2	623.2	623.2	623.2	623.2	623.2
623.3	623.3	623.3	623.3	623.3	623.3	623.4	623.4	623.4	623.4
623.4	623.5	623.5	623.5	623.5	623.6	623.6	623.6	623.6	623.6
623.7	623.7	623.7	623.7	623.8	623.8	623.8	623.9	623.9	623.9
623.9	624.0	624.0	624.0	624.1	624.1	624.1	624.2	624.2	624.3
624.4	624.5	624.5	624.6	624.7	624.7	624.8	624.8	624.9	624.9
625.0	625.0	625.0	625.1	625.1	625.2	625.2	625.2	625.3	625.3
625.3	625.4	625.4	625.4	625.5	625.5	625.5	625.6	625.6	625.6
625.6	625.7	625.7	625.7	625.7	625.7	625.8	625.8	625.8	625.8
625.8	625.8	625.8	625.8	625.9	625.9	625.9	625.9	625.9	625.9
625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9	625.9
625.9	625.9	625.9	625.9	625.9	626.0	626.0	626.0	626.0	626.0
626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0		

PEAK OUTFLOW IS 186. AT TIME 24.00 HOURS

STATION OUTING, PLAN 1, RATIO 2

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	2.	2.	2.	2.
2.	2.	3.	3.	3.	3.	4.	4.	4.	5.
5.	5.	5.	6.	6.	6.	7.	7.	7.	7.
8.	8.	8.	9.	9.	9.	10.	10.	10.	11.
11.	11.	12.	12.	12.	13.	13.	13.	14.	14.
15.	16.	16.	17.	17.	18.	19.	20.	20.	21.
23.	24.	25.	26.	28.	29.	31.	32.	34.	36.
38.	40.	43.	45.	47.	50.	52.	55.	57.	60.
63.	66.	69.	72.	75.	79.	82.	85.	89.	93.
96.	100.	104.	109.	113.	118.	124.	131.	142.	157.
175.	202.	233.	275.	329.	381.	437.	488.	541.	607.
666.	720.	771.	821.	866.	907.	945.	979.	1011.	1034.
1062.	1084.	1105.	1124.	1142.	1159.	1175.	1189.	1202.	1213.
1221.	1226.	1229.	1229.	1226.	1222.	1216.	1209.	1201.	1191.
1180.	1169.	1157.	1145.	1133.	1120.	1108.	1095.	1082.	1069.
1056.	1043.	1030.	1017.	1004.	991.	978.	965.	952.	939.
927.	914.	902.	890.	878.	866.	855.	843.	832.	821.
810.	799.	789.	779.	768.	759.	749.	740.	731.	723.
714.	706.	698.	690.	682.	675.	667.	660.	652.	645.
638.	631.	624.	617.	611.	604.	598.	592.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	2.	3.	3.	3.	3.
3.	3.	3.	3.	4.	4.	4.	4.	4.	4.
4.	5.	5.	5.	5.	5.	6.	6.	7.	7.
8.	9.	9.	10.	11.	12.	13.	14.	15.	17.
18.	19.	20.	22.	23.	24.	26.	27.	28.	30.
31.	33.	34.	36.	38.	39.	41.	43.	44.	46.
46.	49.	51.	53.	55.	56.	58.	60.	62.	64.
66.	68.	69.	71.	73.	75.	77.	79.	81.	83.
85.	87.	89.	91.	93.	95.	97.	99.	101.	103.
105.	107.	109.	111.	113.	116.	118.	120.	123.	127.
130.	134.	139.	143.	148.	153.	158.	163.	168.	174.
179.	185.	191.	197.	203.	209.	215.	222.	228.	234.
241.	248.	254.	261.	269.	276.	284.	291.	299.	307.
315.	323.	331.	340.	349.	359.	370.	384.	403.	426.
455.	487.	521.	555.	590.	621.	651.	678.	703.	726.
746.	765.	782.	798.	812.	825.	837.	848.	858.	867.
875.	883.	889.	896.	902.	907.	912.	917.	921.	925.
927.	929.	930.	930.	929.	928.	926.	923.	921.	917.
914.	910.	906.	902.	898.	894.	890.	886.	882.	877.

873.	869.	865.	861.	856.	852.	848.	844.	840.	836.
832.	828.	824.	820.	816.	812.	809.	805.	802.	798.
795.	791.	788.	785.	781.	778.	775.	772.	769.	766.
763.	760.	758.	755.	752.	749.	747.	744.	742.	739.
737.	734.	732.	730.	727.	725.	723.	721.		

STAGE

622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.9
622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
622.9	622.9	622.9	623.0	623.0	623.0	623.0	623.0	623.0	623.0
623.0	623.0	623.0	623.1	623.1	623.1	623.1	623.1	623.1	623.1
623.1	623.1	623.2	623.2	623.2	623.2	623.2	623.2	623.2	623.2
623.3	623.3	623.3	623.3	623.3	623.3	623.3	623.4	623.4	623.4
623.4	623.4	623.4	623.4	623.5	623.5	623.5	623.5	623.5	623.5
623.5	623.6	623.6	623.6	623.6	623.6	623.6	623.6	623.7	623.7
623.7	623.7	623.8	623.8	623.8	623.9	623.9	623.9	624.0	624.0
624.1	624.1	624.1	624.2	624.2	624.3	624.3	624.3	624.4	624.4
624.5	624.5	624.6	624.6	624.7	624.7	624.8	624.8	624.9	624.9
625.0	625.0	625.1	625.1	625.2	625.3	625.3	625.4	625.6	625.7
625.9	626.1	626.4	626.6	626.8	627.0	627.2	627.4	627.5	627.7
627.8	627.9	628.0	628.1	628.2	628.3	628.4	628.5	628.5	628.6
628.6	628.7	628.7	628.8	628.8	628.8	628.9	628.9	628.9	628.9
629.0	629.0	629.0	629.0	629.0	629.0	628.9	628.9	628.9	628.9
628.9	628.9	628.8	628.8	628.8	628.8	628.7	628.7	628.7	628.6
628.6	628.6	628.6	628.5	628.5	628.5	628.5	628.4	628.4	628.4
628.4	628.3	628.3	628.3	628.3	628.2	628.2	628.2	628.2	628.1
628.1	628.1	628.1	628.1	628.0	628.0	628.0	628.0	628.0	627.9
627.9	627.9	627.9	627.9	627.9	627.8	627.8	627.8	627.8	627.8
627.8	627.7	627.7	627.7	627.7	627.7	627.7	627.7		

PEAK OUTFLOW IS 1229. AT TIME 18.58 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	1229.	992.	307.	307.	88298.
CMS	35.	28.	9.	9.	2500.
INCHES		2.01	2.49	2.49	2.49
MM		51.07	63.16	63.16	63.16
AC-FT		492.	608.	608.	608.
THOUS CU M		607.	750.	750.	750.

MAXIMUM STORAGE = 930.

OVN

STATION OUTING, PLAN 1, RATIO 3

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	2.
2.	2.	2.	2.	3.	3.	3.	4.	4.	4.
5.	5.	6.	6.	6.	7.	7.	8.	8.	8.
9.	9.	10.	10.	10.	11.	11.	12.	12.	13.
13.	14.	15.	15.	16.	17.	18.	19.	20.	20.
21.	22.	23.	24.	25.	26.	26.	27.	28.	29.
30.	31.	32.	33.	33.	34.	35.	37.	39.	41.
43.	45.	48.	50.	53.	56.	59.	62.	65.	68.
72.	76.	80.	84.	88.	92.	96.	101.	106.	111.
116.	122.	128.	134.	143.	153.	164.	174.	187.	203.
220.	238.	258.	280.	320.	353.	391.	441.	502.	608.
744.	907.	1074.	1234.	1332.	1563.	2143.	2611.	3086.	3449.
3713.	3898.	4020.	4095.	4131.	4138.	4121.	4085.	4032.	3966.
3891.	3808.	3722.	3634.	3544.	3460.	3377.	3295.	3210.	3117.
3007.	2881.	2748.	2618.	2512.	2404.	2296.	2187.	2080.	1975.
1871.	1770.	1672.	1578.	1488.	1403.	1388.	1377.	1367.	1356.
1345.	1334.	1323.	1312.	1302.	1291.	1280.	1269.	1258.	1247.
1233.	1216.	1200.	1183.	1167.	1151.	1135.	1119.	1104.	1089.
1074.	1059.	1045.	1031.	1016.	1003.	989.	975.	962.	949.
936.	923.	911.	899.	887.	875.	863.	852.	841.	830.
820.	809.	799.	789.	779.	769.	760.	751.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	2.	2.	3.	3.	3.	3.
3.	3.	3.	3.	4.	4.	4.	4.	4.	4.
5.	5.	5.	5.	5.	5.	6.	6.	6.	6.
7.	7.	7.	7.	8.	8.	8.	9.	10.	11.
12.	13.	14.	16.	17.	19.	20.	22.	23.	25.
27.	29.	31.	33.	35.	37.	39.	41.	43.	45.
48.	50.	52.	55.	57.	59.	62.	64.	67.	69.
72.	74.	77.	80.	82.	85.	87.	90.	93.	96.
98.	101.	104.	106.	109.	112.	115.	118.	120.	123.
124.	129.	132.	135.	137.	140.	143.	146.	149.	152.
155.	158.	161.	164.	167.	170.	173.	177.	181.	186.
191.	197.	203.	210.	217.	224.	231.	239.	246.	254.
262.	270.	279.	287.	296.	305.	315.	324.	334.	344.
355.	366.	378.	391.	404.	421.	437.	453.	471.	489.
507.	526.	545.	564.	584.	604.	627.	653.	686.	726.
774.	824.	879.	931.	981.	1025.	1064.	1094.	1118.	1136.
1149.	1159.	1165.	1168.	1170.	1171.	1170.	1168.	1165.	1162.

1158.	1154.	1150.	1146.	1141.	1137.	1133.	1129.	1125.	1120.
1114.	1108.	1102.	1095.	1088.	1081.	1074.	1066.	1059.	1052.
1046.	1039.	1033.	1026.	1021.	1015.	1010.	1004.	999.	993.
987.	982.	976.	971.	965.	959.	954.	948.	942.	937.
931.	926.	920.	915.	910.	904.	899.	894.	889.	884.
879.	874.	870.	865.	860.	856.	851.	847.	843.	839.
835.	831.	827.	823.	819.	815.	812.	808.	804.	801.
798.	794.	791.	788.	785.	782.	779.	776.		

STAGE

622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.9	622.9	622.9	622.9	622.9	622.9	622.9
622.9	622.9	622.9	622.9	622.9	622.9	622.9	623.0	623.0	623.0
623.0	623.0	623.0	623.0	623.0	623.1	623.1	623.1	623.1	623.1
623.1	623.2	623.2	623.2	623.2	623.2	623.2	623.3	623.3	623.3
623.3	623.3	623.3	623.4	623.4	623.4	623.4	623.4	623.5	623.5
623.5	623.5	623.5	623.5	623.6	623.6	623.6	623.6	623.6	623.7
623.7	623.7	623.7	623.7	623.8	623.8	623.8	623.8	623.8	623.9
623.9	623.9	623.9	623.9	624.0	624.0	624.0	624.0	624.1	624.1
624.1	624.2	624.2	624.3	624.3	624.4	624.4	624.5	624.5	624.6
624.6	624.7	624.7	624.8	624.9	624.9	625.0	625.0	625.1	625.2
625.2	625.3	625.4	625.5	625.6	625.7	625.8	625.9	626.0	626.1
626.3	626.4	626.5	626.6	626.8	626.9	627.1	627.2	627.4	627.7
628.0	628.3	628.7	629.0	629.3	629.6	629.8	630.0	630.1	630.2
630.3	630.4	630.4	630.4	630.4	630.5	630.4	630.4	630.4	630.4
630.4	630.4	630.3	630.3	630.3	630.2	630.2	630.2	630.2	630.1
630.1	630.1	630.0	630.0	629.9	629.9	629.9	629.8	629.8	629.7
629.7	629.6	629.6	629.6	629.5	629.5	629.5	629.4	629.4	629.4
629.3	629.3	629.3	629.2	629.2	629.2	629.1	629.1	629.1	629.0
629.0	628.9	628.9	628.9	628.8	628.8	628.8	628.8	628.7	628.7
628.7	628.6	628.6	628.5	628.5	628.5	628.5	628.5	628.4	628.4
628.4	628.4	628.3	628.3	628.3	628.3	628.2	628.2	628.2	628.2
628.1	628.1	628.1	628.1	628.1	628.0	628.0	628.0		

PEAK OUTFLOW IS 4138. AT TIME 17.17 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	4138.	2229.	661.	661.	190341.
CMS	117.	63.	19.	19.	5390.
INCHES		4.52	5.36	5.36	5.36
MM		114.78	136.14	136.14	136.14
AC-FT		1105.	1311.	1311.	1311.
THOUS CU M		1363.	1617.	1617.	1617.

MAXIMUM STORAGE = 1171.

OVN

STATION OUTING, PLAN 1, RATIO 4

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	2.	2.	2.	2.	3.
3.	3.	4.	4.	5.	5.	6.	6.	7.	7.
7.	8.	8.	9.	9.	10	11.	11.	12.	12.
13.	13.	14.	15.	16.	17.	18.	19.	20.	21.
22.	23.	25.	26.	27.	28.	29.	30.	31.	32.
33.	34.	36.	37.	39.	40.	41.	43.	44.	46.
47.	49.	50.	52.	53.	55.	57.	59.	61.	63.
66.	70.	74.	77.	82.	86.	90.	95.	100.	105.
111.	117.	123.	130.	138.	149.	160.	171.	184.	202.
220.	239.	264.	299.	336.	373.	417.	462.	508.	571.
641.	711.	744.	860.	936.	1014.	1099.	1201.	1297.	1397.
2293.	3366.	4473.	5648.	6581.	7329.	7798.	8046.	8122.	8070.
7927.	7723.	7482.	7222.	6955.	6691.	6435.	6218.	6002.	5788.
5580.	5377.	5183.	4999.	4827.	4668.	4520.	4380.	4252.	4132.
3994.	3838.	3684.	3476.	3280.	3085.	2897.	2716.	2567.	2438.
2312.	2189.	2069.	1953.	1841.	1734.	1631.	1535.	1446.	1393.
1343.	1373.	1362.	1352.	1341.	1331.	1321.	1310.	1300.	1289.
1279.	1269.	1258.	1248.	1235.	1219.	1204.	1188.	1173.	1157.
1143.	1128.	1113.	1099.	1085.	1071.	1057.	1044.	1031.	1019.
1005.	992.	979.	967.	955.	943.	931.	919.	907.	896.
885.	874.	864.	853.	843.	833.	823.	814.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	2.	2.	2.
2.	2.	2.	2.	2.	2.	2.	2.	2.	3.
3.	3.	3.	3.	3.	3.	3.	4.	4.	4.
4.	4.	4.	5.	5.	5.	5.	5.	6.	6.
6.	6.	7.	7.	7.	7.	8.	8.	8.	9.
9.	9.	9.	10.	10.	11.	11.	12.	13.	14.
16.	17.	19.	21.	23.	25.	27.	29.	31.	34.
36.	39.	41.	44.	47.	49.	52.	55.	58.	61.
64.	67.	70.	73.	76.	79.	82.	86.	89.	92.
96.	99.	102.	106.	109.	112.	116.	119.	123.	126.
130.	133.	137.	141.	144.	148.	151.	155.	159.	162.
166.	169.	173.	177.	181.	184.	188.	192.	195.	199.
203.	207.	210.	214.	218.	222.	226.	231.	236.	242.
249.	257.	265.	274.	283.	292.	302.	312.	322.	332.
344.	356.	369.	383.	398.	414.	431.	449.	467.	487.
507.	528.	549.	571.	594.	617.	641.	665.	689.	713.
738.	762.	786.	811.	835.	860.	887.	921.	962.	1014.
1073.	1131.	1185.	1231.	1267.	1292.	1308.	1316.	1318.	1317.
1312.	1305.	1297.	1288.	1279.	1270.	1262.	1253.	1245.	1237.
1228.	1221.	1213.	1206.	1199.	1193.	1187.	1182.	1176.	1170.
1163.	1156.	1147.	1138.	1128.	1118.	1109.	1100.	1091.	1083.

1075.	1067.	1059.	1051.	1044.	1037.	1030.	1024.	1018.	1012.
1007.	1002.	996.	991.	986.	980.	975.	969.	964.	959.
953.	948.	943.	937.	932.	927.	922.	916.	911.	906.
902.	897.	892.	887.	883.	878.	874.	869.	865.	861.
857.	853.	848.	844.	841.	837.	833.	829.	826.	822.
819.	815.	812.	808.	805.	802.	799.	796.		

STAGE

622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.9	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.9	622.9	622.9	622.9	622.9
622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
622.9	622.9	622.9	622.9	623.0	623.0	623.0	623.0	623.0	623.0
623.1	623.1	623.1	623.1	623.1	623.1	623.2	623.2	623.2	623.2
623.2	623.3	623.3	623.3	623.3	623.4	623.4	623.4	623.4	623.4
623.5	623.5	623.5	623.5	623.6	623.6	623.6	623.6	623.7	623.7
623.7	623.7	623.8	623.8	623.8	623.8	623.9	623.9	623.9	623.9
624.0	624.0	624.0	624.0	624.1	624.1	624.1	624.1	624.2	624.2
624.2	624.2	624.3	624.3	624.3	624.3	624.4	624.4	624.4	624.5
624.5	624.6	624.6	624.7	624.8	624.8	624.9	625.0	625.0	625.1
625.2	625.3	625.3	625.4	625.5	625.6	625.8	625.9	626.0	626.1
626.3	626.4	626.5	626.7	626.8	627.0	627.1	627.3	627.5	627.6
627.8	627.9	628.1	628.2	628.4	628.5	628.7	628.9	629.2	629.5
629.9	630.2	630.5	630.8	631.0	631.2	631.3	631.3	631.3	631.3
631.3	631.3	631.2	631.2	631.1	631.0	631.0	630.9	630.9	630.8
630.8	630.8	630.7	630.7	630.6	630.6	630.6	630.5	630.5	630.4
630.4	630.4	630.3	630.3	630.2	630.1	630.1	630.0	630.0	629.9
629.9	629.8	629.8	629.7	629.7	629.6	629.6	629.6	629.5	629.5
629.5	629.4	629.4	629.4	629.3	629.3	629.3	629.2	629.2	629.2
629.1	629.1	629.1	629.0	629.0	629.0	628.9	628.9	628.9	628.8
628.8	628.8	628.7	628.7	628.7	628.7	628.6	628.6	628.6	628.5
628.5	628.5	628.5	628.4	628.4	628.4	628.4	628.3	628.3	628.3
628.3	628.3	628.2	628.2	628.2	628.2	628.2	628.1		

PEAK OUTFLOW IS 8122. AT TIME 16.58 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	8122.	3561.	1034.	1034.	297896.
CMS	230.	101.	29.	29.	8435.
INCHES		7.22	8.39	8.39	8.39
MM		183.41	213.08	213.08	213.08
AC-FT		1766.	2052.	2052.	2052.
THOUS CU M		2178.	2531.	2531.	2531.

MAXIMUM STORAGE = 1318.

OVN

STATION OUTING, PLAN 1, RATIO 5

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	2.	2.	2.	3.	3.	4.	4.
5.	5.	6.	6.	7.	7.	8.	8.	9.	9.
10.	11.	11.	12.	13.	13.	14.	15.	17.	18.
19.	20.	22.	23.	24.	25.	27.	28.	29.	30.
32.	33.	34.	36.	38.	39.	41.	43.	45.	46.
48.	50.	52.	54.	55.	57.	59.	61.	63.	64.
66.	69.	71.	73.	75.	77.	79.	82.	85.	88.
92.	97.	102.	108.	114.	120.	127.	135.	145.	157.
169.	182.	201.	222.	243.	274.	313.	353.	396.	444.
492.	551.	627.	704.	787.	875.	963.	1051.	1137.	1224.
1285.	1339.	1392.	1761.	2136.	2499.	2960.	3552.	4294.	5406.
6673.	8067.	9458.	10453.	11156.	11559.	11704.	11646.	11437.	11121.
10734.	10309.	9867.	9427.	8863.	8492.	8143.	7809.	7487.	7178.
6885.	6608.	6360.	6148.	5948.	5761.	5587.	5422.	5255.	5076.
4876.	4650.	4401.	4169.	3950.	3728.	3503.	3281.	3069.	2867.
2676.	2530.	2395.	2264.	2137.	2015.	1897.	1786.	1681.	1583.
1493.	1411.	1349.	1379.	1370.	1360.	1350.	1340.	1330.	1320.
1310.	1301.	1291.	1281.	1271.	1262.	1252.	1242.	1227.	1213.
1194.	1183.	1169.	1155.	1141.	1128.	1114.	1101.	1088.	1075.
1062.	1050.	1038.	1026.	1014.	1002.	991.	979.	968.	957.
946.	935.	924.	914.	904.	894.	884.	874.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	2.	2.	2.	2.	2.	2.	2.
2.	2.	2.	2.	3.	3.	3.	3.	3.	3.
3.	3.	4.	4.	4.	4.	4.	4.	5.	5.
5.	5.	5.	6.	6.	6.	6.	7.	7.	7.
8.	8.	8.	9.	9.	9.	10.	10.	10.	11.
11.	11.	12.	12.	13.	13.	14.	15.	17.	18.
20.	22.	24.	26.	29.	31.	34.	37.	39.	42.
45.	49.	52.	55.	58.	62.	65.	69.	72.	76.
80.	84.	87.	91.	95.	99.	103.	107.	111.	115.
119.	123.	127.	131.	135.	140.	144.	148.	152.	157.
161.	165.	170.	174.	178.	183.	187.	191.	196.	200.
205.	209.	214.	218.	223.	227.	232.	236.	241.	245.
250.	254.	259.	263.	268.	273.	278.	284.	290.	294.
306.	316.	326.	338.	350.	363.	377.	392.	409.	426.
445.	465.	486.	509.	532.	556.	580.	605.	630.	655.
680.	706.	733.	760.	787.	815.	843.	872.	900.	928.
956.	984.	1012.	1038.	1063.	1087.	1112.	1141.	1178.	1222.
1270.	1317.	1357.	1389.	1412.	1425.	1429.	1427.	1421.	1411.
1398.	1384.	1370.	1356.	1343.	1331.	1319.	1308.	1297.	1287.
1277.	1268.	1259.	1251.	1243.	1235.	1229.	1222.	1216.	1209.
1201.	1192.	1182.	1172.	1161.	1150.	1139.	1128.	1118.	1108.
1098.	1089.	1080.	1072.	1063.	1055.	1047.	1040.	1033.	1027.

1021.	1015.	1010.	1005.	1000.	995.	990.	985.	980.	975.
969.	964.	959.	954.	949.	944.	939.	934.	929.	924.
920.	915.	910.	906.	901.	897.	892.	888.	884.	880.
875.	871.	867.	863.	860.	856.	852.	848.	845.	841.
839.	834.	831.	828.	824.	821.	818.	815.		

STAGE

622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.9
622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
622.9	623.0	623.0	623.0	623.0	623.0	623.0	623.1	623.1	623.1
623.1	623.1	623.2	623.2	623.2	623.2	623.3	623.3	623.3	623.3
623.4	623.4	623.4	623.4	623.5	623.5	623.5	623.6	623.6	623.6
623.6	623.7	623.7	623.7	623.7	623.8	623.8	623.8	623.9	623.9
623.9	624.0	624.0	624.0	624.0	624.1	624.1	624.1	624.2	624.2
624.2	624.3	624.3	624.3	624.4	624.4	624.4	624.4	624.5	624.5
624.5	624.6	624.6	624.6	624.7	624.7	624.7	624.8	624.8	624.9
624.9	625.0	625.1	625.1	625.2	625.3	625.4	625.5	625.6	625.7
625.9	626.0	626.1	626.3	626.4	626.6	626.7	626.9	627.1	627.2
627.4	627.6	627.7	627.9	628.1	628.3	628.4	628.6	628.8	629.0
629.1	629.3	629.5	629.6	629.8	629.9	630.1	630.3	630.5	630.8
631.0	631.3	631.6	631.8	631.9	632.0	632.0	632.0	631.9	631.9
631.8	631.7	631.6	631.6	631.5	631.4	631.3	631.3	631.2	631.1
631.1	631.0	631.0	630.9	630.9	630.8	630.8	630.8	630.7	630.7
630.6	630.6	630.5	630.5	630.4	630.3	630.3	630.2	630.1	630.1
630.0	630.0	629.9	629.8	629.8	629.7	629.7	629.7	629.6	629.6
629.5	629.5	629.5	629.4	629.4	629.4	629.3	629.3	629.3	629.3
629.2	629.2	629.2	629.1	629.1	629.1	629.0	629.0	629.0	628.9
628.9	628.9	628.9	628.8	628.8	628.8	628.7	628.7	628.7	628.7
628.6	628.6	628.6	628.6	628.5	628.5	628.5	628.5	628.4	628.4
628.4	628.4	628.4	628.3	628.3	628.3	628.3	628.3		

PEAK OUTFLOW IS 11704. AT TIME 16.42 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	11704.	4903.	1410.	1410.	405980.
CMS	331.	139.	40.	40.	11496.
INCHES		9.94	11.43	11.43	11.43
MM		252.53	290.39	290.39	290.39
AC-FT		2431.	2796.	2796.	2796.
THOUS CU M		2999.	3449.	3449.	3449.

MAXIMUM STORAGE = 1429.

OVN

STATION OUTING, PLAN 1, RATIO 6

END-OF-PERIOD HYDROGRAPH ORDINATES

OUTFLOW

0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
0.	0.	0.	0.	0.	0.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	1.	1.	1.	1.	1.	1.	1.
1.	1.	1.	2.	2.	2.	2.	2.	3.	3.
4.	4.	5.	6.	7.	7.	8.	9.	10.	11.
12.	13.	15.	17.	18.	20.	22.	25.	27.	29.
31.	33.	35.	38.	41.	44.	47.	50.	53.	56.
59.	62.	66.	69.	73.	76.	80.	84.	88.	92.
96.	100.	105.	110.	116.	122.	127.	134.	141.	149.
158.	166.	174.	183.	195.	208.	220.	233.	245.	262.
283.	305.	326.	348.	369.	393.	420.	449.	482.	520.
585.	658.	739.	834.	935.	1038.	1143.	1248.	1318.	1390.
1903.	2437.	3030.	3638.	4192.	4796.	5351.	5937.	6262.	6666.
7047.	7392.	7714.	8023.	8321.	8609.	8885.	9305.	9527.	9734.
9923.	10089.	10242.	10358.	10497.	10707.	11111.	11897.	13211.	15043.
17190.	19253.	21274.	22782.	23783.	24264.	24300.	23994.	23430.	22684.
21823.	20945.	19970.	19050.	18166.	17327.	16538.	15794.	15090.	14424.
13797.	13209.	12662.	12158.	11699.	11283.	10907.	10555.	10204.	9824.
9393.	8763.	8273.	7745.	7211.	6690.	6217.	5788.	5370.	4967.
4582.	4234.	3959.	3691.	3432.	3188.	2961.	2750.	2577.	2440.
2312.	2191.	2078.	1973.	1875.	1785.	1701.	1624.	1554.	1489.
1429.	1394.	1368.	1381.	1374.	1367.	1360.	1353.	1346.	1340.
1333.	1325.	1320.	1313.	1307.	1300.	1294.	1288.	1281.	1275.
1269.	1263.	1257.	1251.	1245.	1238.	1229.	1220.	1211.	1202.
1194.	1185.	1177.	1169.	1161.	1154.	1146.	1139.		

STORAGE

0.	0.	0.	0.	0.	0.	0.	0.	1.	1.
1.	1.	1.	1.	2.	2.	2.	2.	2.	2.
2.	3.	3.	3.	3.	4.	4.	4.	4.	4.
4.	5.	5.	5.	5.	5.	6.	6.	6.	6.
7.	7.	7.	7.	8.	8.	8.	9.	9.	10.
10.	11.	11.	12.	12.	13.	13.	14.	14.	15.
15.	16.	17.	17.	18.	19.	19.	20.	21.	22.
23.	23.	24.	25.	26.	27.	29.	31.	34.	37.
41.	45.	49.	53.	58.	63.	69.	74.	80.	84.
92.	98.	104.	110.	117.	123.	130.	137.	144.	151.
158.	165.	172.	180.	187.	194.	202.	209.	217.	224.
232.	240.	248.	256.	263.	271.	279.	288.	296.	305.
314.	323.	333.	344.	355.	366.	378.	390.	402.	415.
427.	440.	454.	467.	480.	494.	507.	521.	534.	548.
561.	574.	589.	601.	614.	628.	642.	657.	675.	695.
718.	744.	772.	802.	834.	868.	902.	937.	973.	1011.
1048.	1083.	1116.	1146.	1173.	1198.	1220.	1238.	1255.	1270.
1282.	1294.	1305.	1315.	1325.	1335.	1344.	1352.	1359.	1366.
1372.	1377.	1382.	1386.	1390.	1397.	1410.	1435.	1478.	1536.
1605.	1675.	1736.	1785.	1817.	1832.	1833.	1823.	1805.	1781.
1754.	1724.	1694.	1665.	1636.	1610.	1584.	1560.	1538.	1516.
1496.	1477.	1460.	1444.	1429.	1416.	1404.	1392.	1381.	1369.

1355.	1340.	1324.	1306.	1288.	1270.	1253.	1237.	1220.	1205.
1190.	1175.	1162.	1148.	1134.	1123.	1112.	1102.	1092.	1083.
1075.	1067.	1059.	1052.	1046.	1040.	1035.	1029.	1025.	1021.
1017.	1013.	1009.	1006.	1002.	999.	995.	992.	988.	985.
981.	978.	974.	971.	968.	964.	961.	958.	954.	951.
948.	945.	942.	939.	936.	933.	930.	927.	924.	921.
919.	916.	913.	910.	908.	905.	903.	900.		

STAGE

622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8	622.8
622.8	622.8	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9
622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	622.9	623.0
623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.0	623.1
623.1	623.1	623.1	623.2	623.2	623.2	623.3	623.3	623.4	623.4
623.4	623.5	623.5	623.6	623.6	623.7	623.7	623.8	623.8	623.9
623.9	624.0	624.0	624.1	624.1	624.2	624.2	624.3	624.3	624.4
624.4	624.5	624.5	624.6	624.6	624.7	624.7	624.8	624.9	624.9
625.0	625.0	625.1	625.2	625.2	625.3	625.4	625.5	625.6	625.7
625.7	625.8	625.9	626.0	626.1	626.2	626.3	626.4	626.4	626.5
626.6	626.7	626.8	626.9	627.0	627.1	627.1	627.2	627.4	627.5
627.6	627.8	628.0	628.2	628.4	628.6	628.8	629.0	629.2	629.5
629.7	629.9	630.1	630.3	630.5	630.6	630.7	630.9	631.0	631.0
631.1	631.2	631.3	631.3	631.4	631.4	631.5	631.5	631.6	631.6
631.7	631.7	631.7	631.7	631.8	631.8	631.9	632.0	632.3	632.6
633.0	633.4	633.8	634.1	634.3	634.4	634.4	634.3	634.2	634.1
633.9	633.7	633.5	633.4	633.2	633.1	632.9	632.8	632.6	632.5
632.4	632.3	632.2	632.1	632.0	631.9	631.8	631.8	631.7	631.6
631.6	631.5	631.4	631.3	631.2	631.0	630.9	630.8	630.7	630.7
630.6	630.5	630.4	630.3	630.2	630.2	630.1	630.0	630.0	629.9
629.9	629.8	629.8	629.7	629.7	629.7	629.6	629.6	629.6	629.5
629.5	629.5	629.5	629.4	629.4	629.4	629.4	629.4	629.3	629.3
629.3	629.3	629.2	629.2	629.2	629.2	629.2	629.1	629.1	629.1
629.1	629.1	629.0	629.0	629.0	629.0	629.0	629.0	628.9	628.9
628.9	628.9	628.9	628.9	628.8	628.8	628.8	628.8		

PEAK OUTFLOW IS 24300. AT TIME 16.42 HOURS

	PEAK	6-HOUR	24-HOUR	72-HOUR	TOTAL VOLUME
CFS	24300.	11707.	3297.	3297.	949422.
CMS	688.	332.	93.	93.	26885.
INCHES		23.74	26.74	26.74	26.74
MM		602.91	679.09	679.09	679.09
AC-FT		5805.	6539.	6539.	6539.
THOUS CU M		7161.	8065.	8065.	8065.

MAXIMUM STORAGE = 1833.

PEAK FLOW AND STORAGE (END OF PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND (CUBIC METERS PER SECOND)
AREA IN SQUARE MILES (SQUARE KILOMETERS)

OPERATION	STATION	AREA	PLAN	RATIOS APPLIED TO FLOWS RATIO 1 .10	RATIO 2 .20	RATIO 3 .30	RATIO 4 .40	RATIO 5 .50	RATIO 6 1.00
HYDROGRAPH AT	INFLOW	.17	1	193.	386.	579.	773.	966.	1932.
		(.44)		(5.47)(	10.94)(	16.41)(	21.88)(	27.35)(	54.70)(
ROUTED TO	OUTING	.17	1	99.	344.	535.	720.	902.	1802.
		(.44)		(2.79)(	9.75)(	15.16)(	20.40)(	25.55)(	51.03)(
HYDROGRAPH AT	INFLOW	.06	1	66.	131.	197.	263.	328.	657.
		(.15)		(1.86)(	3.72)(	5.58)(	7.44)(	9.30)(	18.60)(
2 COMBINED		.23	1	135.	461.	710.	953.	1197.	2391.
		(.59)		(3.82)(	13.05)(	20.10)(	26.99)(	33.90)(	67.71)(
ROUTED TO	OUTING	.23	1	31.	123.	542.	815.	1091.	2278.
		(.59)		(.88)(	3.47)(	15.36)(	23.08)(	30.89)(	64.51)(
HYDROGRAPH AT	INFLOW	1.51	1	1052.	2104.	3156.	4208.	5261.	10521.
		(3.91)		(29.79)(	59.58)(	89.38)(	119.17)(	148.96)(	297.92)(
ROUTED TO	OUTING	1.51	1	274.	1667.	2561.	3416.	4270.	8540.
		(3.91)		(7.77)(	47.20)(	72.52)(	96.72)(	120.91)(	241.82)(
HYDROGRAPH AT	INFLOW	.72	1	556.	1113.	1669.	2225.	2782.	5563.
		(1.86)		(15.75)(	31.51)(	47.26)(	63.01)(	78.77)(	157.53)(
ROUTED TO	OUTING	.72	1	130.	817.	1444.	1933.	2414.	4811.
		(1.86)		(3.67)(	23.14)(	40.88)(	54.74)(	68.36)(	136.22)(
HYDROGRAPH AT	INFLOW	2.13	1	1646.	3292.	4937.	6583.	8229.	16458.
		(5.52)		(46.60)(	93.21)(	139.81)(	186.41)(	233.02)(	466.03)(
4 COMBINED		4.59	1	1814.	5303.	8840.	11840.	14742.	29409.
		(11.88)		(51.42)(	150.18)(	250.33)(	335.27)(	417.43)(	832.77)(
ROUTED TO	OUTING	4.59	1	186.	1229.	4138.	8122.	11704.	24300.
		(11.88)		(5.26)(	34.80)(	117.17)(	229.99)(	331.42)(	688.09)(

SUMMARY OF DAM SAFETY ANALYSIS

PLAN 1 .....

	INITIAL VALUE	SPILLWAY CREST	TOP OF DAM
ELEVATION	699.78	699.78	702.70
STORAGE	0.	0.	14.
OUTFLOW	0.	0.	51.

RATIO OF PMF	MAXIMUM RESERVOIR W.S.ELEV	MAXIMUM DEPTH OVER DAM	MAXIMUM STORAGE AC-FT	MAXIMUM OUTFLOW CFS	DURATION OVER TOP HOURS	TIME OF MAX OUTFLOW HOURS	TIME OF FAILURE HOURS
.10	703.07	.37	15.	99.	1.25	16.00	0.00
.20	703.69	.99	18.	344.	4.25	15.83	0.00
.30	703.93	1.23	19.	535.	5.75	15.83	0.00
.40	704.15	1.45	20.	720.	6.58	15.83	0.00
.50	704.35	1.65	21.	902.	7.00	15.83	0.00
1.00	705.36	2.66	26.	1802.	11.17	15.83	0.00

LAKE ELEANOR
COMPUTER SUMMARY ANALYSIS

SUMMARY OF DAM SAFETY ANALYSIS

PLAN 1 .....

	INITIAL VALUE	SPILLWAY CREST	TOP OF DAM
ELEVATION	671.02	671.02	674.80
STORAGE	0.	0.	33.
OUTFLOW	0.	0.	88.

RATIO OF PMF	MAXIMUM RESERVOIR W.S.ELEV	MAXIMUM DEPTH OVER DAM	MAXIMUM STORAGE AC-FT	MAXIMUM OUTFLOW CFS	DURATION OVER TOP HOURS	TIME OF MAX OUTFLOW HOURS	TIME OF FAILURE HOURS
.10	673.17	0.00	18.	31.	0.00	18.67	0.00
.20	675.03	.23	36.	123.	2.58	16.75	0.00
.30	675.59	.79	41.	542.	3.54	16.00	0.00
.40	675.95	1.15	44.	815.	4.58	15.92	0.00
.50	676.14	1.34	46.	1091.	5.42	15.92	0.00
1.00	676.84	2.04	53.	2278.	7.58	15.83	0.00

LAKE MARION
COMPUTER SUMMARY ANALYSIS

SUMMARY OF DAM SAFETY ANALYSIS

PLAN 1 .....

	INITIAL VALUE	SPILLWAY CREST	TOP OF DAM
ELEVATION	650.30	650.30	658.20
STORAGE	0.	0.	142.
OUTFLOW	0.	0.	155.

RATIO OF PMF	MAXIMUM RESERVOIR W.S.ELEV	MAXIMUM DEPTH OVER DAM	MAXIMUM STORAGE AC-FT	MAXIMUM OUTFLOW CFS	DURATION OVER TOP HOURS	TIME OF MAX OUTFLOW HOURS	TIME OF FAILURE HOURS
.10	659.03	.83	159.	274.	3.25	10.25	0.00
.20	661.11	2.91	203.	1667.	5.50	16.42	0.00
.30	662.45	4.25	232.	2561.	7.25	16.42	0.00
.40	663.73	5.53	260.	3416.	8.58	16.42	0.00
.50	665.01	6.81	288.	4270.	10.25	16.42	0.00
1.00	671.40	13.20	426.	8540.	14.25	16.42	0.00

SUGARHOLLOW LAKE
COMPUTER SUMMARY ANALYSIS

SUMMARY OF DAM SAFETY ANALYSIS

PLAN 1 .....

	INITIAL VALUE	SPILLWAY CREST	TOP OF DAM
ELEVATION	648.07	648.07	655.20
STORAGE	0.	0.	49.
OUTFLOW	0.	0.	60.

RATIO OF PMF	MAXIMUM RESERVOIR W.S.ELEV	MAXIMUM DEPTH OVER DAM	MAXIMUM STORAGE AC-FT	MAXIMUM OUTFLOW CFS	DURATION OVER TOP HOURS	TIME OF MAX OUTFLOW HOURS	TIME OF FAILURE HOURS
.1[illegible]	656.44	1.24	83.	130.	4.92	18.17	0.00
.2[illegible]	658.49	3.69	113.	817.	8.00	16.33	0.00
.3[illegible]	659.81	4.61	124.	1444.	10.33	16.17	0.00
.40	660.50	5.30	133.	1933.	11.08	16.17	0.00
.50	661.18	5.98	143.	2414.	11.58	16.17	0.00
1.00	664.57	9.37	189.	4811.	14.50	16.17	0.00

LAKE BOBWOOD
COMPUTER SUMMARY ANALYSIS

SUMMARY OF DAM SAFETY ANALYSIS

PLAN 1 .....

	INITIAL VALUE	SPILLWAY CREST	TOP OF DAM
ELEVATION	622.80	622.80	629.60
STORAGE	0.	0.	1031.
OUTFLOW	0.	0.	1647.

RATIO OF PMF	MAXIMUM RESERVOIR W.S.ELEV	MAXIMUM DEPTH OVER DAM	MAXIMUM STORAGE AC-FT	MAXIMUM OUTFLOW CFS	DURATION OVER TOP HOURS	TIME OF MAX OUTFLOW HOURS	TIME OF FAILURE HOURS
.10	626.02	0.00	470.	186.	0.00	24.00	0.00
.20	628.97	0.00	930.	1229.	0.00	18.58	0.00
.30	630.45	.85	1171.	4138.	3.08	17.17	0.00
.40	631.34	1.74	1318.	8122.	3.83	16.58	0.00
.50	631.99	2.39	1429.	11704.	4.67	16.42	0.00
1.00	634.36	4.76	1833.	24300.	7.25	16.42	0.00

LAKE SHERWOOD
COMPUTER SUMMARY ANALYSIS